

SUPPLEMENT TO

ATMOSPHERIC ENVIRONMENT

Volume 36
2002

Volume Contents, Author Index and Keyword Index



PERGAMON

ATMOSPHERIC ENVIRONMENT

SCOPE

The subject matter of papers published in *Atmospheric Environment* covers all aspects of the interaction of people and ecosystems with their atmospheric environment. This includes scientific, administrative, economic and political aspects of these interactions. The main aim of *Atmospheric Environment* is to provide a scientific understanding of the consequences of natural and human-induced perturbations on the Earth's atmosphere. Areas covered include but are not limited to air pollution research and its applications, air quality and its effects, dispersion and transport, depositions, bioposition, biospheric-atmospheric exchange, global atmospheric chemistry, radiation and climate. Novel results based on experiments, theory and modelling of the atmosphere, extending from the local to global scales, are included. *Atmospheric Environment* publishes research and review papers, special issues and other invited and contributed columns:

New Directions A monthly column reporting on late-breaking, controversial, or speculative issues in all aspects of the atmospheric sciences. Editor: Dr W. Sturges, *Norwich, UK* (E-mail: new.directions@uea.ac.uk).

Fast Track Papers A route for rapid publication of manuscripts that are especially urgent.

Short Communications and Technical Notes Papers that cover topics which may be simpler in structure or of more limited interest, sometimes reporting unusual observations.

Atmospheric Environment International A series of special issues placing air pollution research in a regional context. The following regions will be covered: Africa and Middle East, Asia, Australasia, Antarctica, Central and South America, North America, Eastern Europe, Western Europe.

Forty issues of *Atmospheric Environment* are published annually.

Authors are referred to the Preparation of Papers guidelines, printed in every issue, for advice concerning the preparation of their manuscript. Submission of papers on disk is encouraged and the rapid publication of select and timely papers is also possible.

Contributions can be made to either of the Executive Editors listed below.

PROF. P. BRIMBLECOMBE *School of Environmental Sciences, University of East Anglia, Norwich NR4 7TJ, U.K.* e-mail: atmos_env@uea.ac.uk

DR H. B. SINGH *Earth Science Division, MS 245-5, NASA Ames Research Center, Moffett Field, CA 94035, U.S.A.* e-mail: ramasingh1@msn.com or hsingh@mail.arc.nasa.gov

Author enquiries: For enquiries relating to the submission of articles (including electronic submission where available) please visit the Author Gateway from Elsevier Science at <http://authors.elsevier.com>. The Author Gateway also provides the facility to track accepted articles and set up e-mail alerts to inform you of when an article's status has changed, as well as detailed artwork guidelines, copyright information, frequently asked questions and more.

Contact details for questions arising after acceptance of an article, especially those relating to proofs, are provided after registration of an article for publication.

Published three times monthly with extra issues in March, June, September and December

Publication information: *Atmospheric Environment* (ISSN 1352-2310). For 2002, Volume 36 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/atmosenv>). Further information is available on this journal and other Elsevier Science products through Elsevier's website: (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

© 2002 Elsevier Science Ltd. All rights reserved.

USA mailing notice: *Atmospheric Environment* (ISSN 1352-2310) is published 3 times a month with extra issues in March, June, September and December by Elsevier Science Ltd. (P.O. Box 211, 1000 AE Amsterdam, The Netherlands). Annual subscription price in the USA US\$ 4688.00 (valid in North, Central and South America), including air speed delivery. Periodical postage rate paid at Jamaica, NY 11431.

USA POSTMASTER: Send address changes to *Atmospheric Environment*, Publications Expediting Inc., 200 Meacham Ave, Elmont, NY 11003.

AIRFREIGHT AND MAILING in the USA by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 110033.

Disclaimer: Whilst every effort is made by the Publishers and Editorial Board to see that no inaccurate or misleading data, opinion or statement appear in this Journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the Publishers, the Editorial Board and Editors and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

CONTENTS OF VOLUME 36

Number 1

- | | | |
|--|-----|--|
| M. Leutwyler, K. Siegmann and Ch. Monn | 1 | Suspended particulate matter in railway coaches |
| D.N. Sørensen and C.J. Weschler | 9 | Modeling-gas phase reactions in indoor environments using computational fluid dynamics |
| N. Altimir, T. Vesala, P. Keronen, M. Kulmala and P. Hari | 19 | Methodology for direct field measurements of ozone flux to foliage with shoot chambers |
| K.F. Moore, D.E. Sherman, J.E. Reilly and J.L. Collett Jr. | 31 | Development of a multi-stage cloud water collector Part 1: Design and field performance evaluation |
| D.J. Straub and J.L. Collett Jr. | 45 | Development of a multi-stage cloud water collector Part 2: Numerical and experimental calibration |
| K.F. Ho, S.C. Lee and G.M.Y. Chiu | 57 | Characterization of selected volatile organic compounds, polycyclic aromatic hydrocarbons and carbonyl compounds at a roadside monitoring station |
| C. Mangia, D.M. Moreira, I. Schipa, G.A. Degrazia, T. Tirabassi and U. Rizza | 67 | Evaluation of a new eddy diffusivity parameterisation from turbulent Eulerian spectra in different stability conditions |
| E. Lamaud, A. Carrara, Y. Brunet, A. Lopez and A. Druilhet | 77 | Ozone fluxes above and within a pine forest canopy in dry and wet conditions |
| R. Arimoto, W. Balsam and C. Schloesslin | 89 | Visible spectroscopy of aerosol particles collected on filters: iron-oxide minerals |
| M. Sharan and S. Gupta | 97 | Two-dimensional analytical model for estimating crosswind integrated concentration in a capping inversion: eddy diffusivity as a function of downwind distance from the source |
| J.D. Yanosky, P.L. Williams and D.L. MacIntosh | 107 | A comparison of two direct-reading aerosol monitors with the federal reference method for PM _{2.5} in indoor air |
| L. Wang, J.B. Milford and W.P.L. Carter | 115 | Uncertainty analysis of chamber-derived incremental reactivity estimates for <i>n</i> -butyl acetate and 2-butoxy ethanol |
| P.A. Roelle and V.P. Aneja | 137 | Nitric oxide emissions from soils amended with municipal waste biosolids |
| S. Oh and J.M. Andino | 149 | Laboratory studies of the impact of aerosol composition on the heterogeneous oxidation of 1-propanol |
| <i>Conference report</i> | | |
| A. Lohmeyer, W.J. Mueller and W. Baechlin | 157 | A comparison of street canyon concentration predictions by different modellers: final results now available from the Podbi-exercise |
| <i>New Directions</i> | | |
| R.G. Harrison | 159 | New Directions: Radiolytic particle production in the atmosphere |
| List of Forthcoming Papers | I | |

Number 2

Atmospheric Environment International Issue: Asia, Central & South America and Eastern Europe

Asia

- | | | |
|---|-----|---|
| J. Xu, M.H. Bergin, X. Yu, G. Liu, J. Zhao, C.M. Carrico and K. Baumann | 161 | Measurement of aerosol chemical, physical and radiative properties in the Yangtze delta region of China |
|---|-----|---|

- G.R. Carmichael, G. Calori, H. Hayami, I. Uno, S.Y. Cho, M. Engardt, S.-B. Kim, Y. Ichikawa, Y. Ikeda, J.-H. Woo, H. Ueda and M. Amann 175 The MICS-Asia study: model intercomparison of long-range transport and sulfur deposition in East Asia
- J.Y. Kim and Y.S. Ghim 201 Effects of the density of meteorological observations on the diagnostic wind fields and the performance of photochemical modeling in the greater Seoul area
- A. Garg, M. Kapshe, P.R. Shukla and D. Ghosh 213 Large point source (LPS) emissions from India: regional and sectoral analysis
- S.C. Lee, W.-M. Li and C.-H. Ao 225 Investigation of indoor air quality at residential homes in Hong Kong—case study
- M. Sakata and K. Marumoto 239 Formation of atmospheric particulate mercury in the Tokyo metropolitan area
- N.Y.M.J. Omar, M.R.B. Abas, K.A. Ketuly and N.M. Tahir 249 Concentrations of PAHs in atmospheric particles (PM-10) and roadside soil particles collected in Kuala Lumpur, Malaysia
- L.Y. Chan, Y.M. Liu, S.C. Lee and C.Y. Chan 255 Carbon monoxide levels measured in major commuting corridors covering different landuse and roadway micro-environments in Hong Kong
- C.Y. Chao and K.K. Wong 265 Residential indoor PM₁₀ and PM_{2.5} in Hong Kong and the elemental composition
- M.B. Chang, J.-J. Lin and S.-H. Chang 279 Characterization of dioxin emissions from two municipal solid waste incinerators in Taiwan
- Central/South America**
- G.G. Palancar and B.M. Toselli 287 Erythemat ultraviolet irradiance in Córdoba, Argentina
- M.A. Rubio, E. Lissi and G. Villena 293 Nitrite in rain and dew in Santiago city, Chile. Its possible impact on the early morning start of the photochemical smog
- L.E. Olcese and B.M. Toselli 299 Some aspects of air pollution in Córdoba, Argentina
- B.S.D. Martinis, R.A. Okamoto, N.Y. Kado, L.A. Gundel and L.R.F. Carvalho 307 Polycyclic aromatic hydrocarbons in a bioassay-fractionated extract of PM₁₀ collected in São Paulo, Brazil
- H. Jorquera 315 Air quality at Santiago, Chile: a box modeling approach—I. Carbon monoxide, nitrogen oxides and sulfur dioxide
- H. Jorquera 331 Air quality at Santiago, Chile: a box modeling approach—II. PM_{2.5}, coarse and PM₁₀ particulate matter fractions
- Short communication*
- R.M. de Miranda, M. de Fátima Andrade, A. Worobiec and R.V. Grieken 345 Characterisation of aerosol particles in the São Paulo Metropolitan Area
- Eastern Europe**
- K.S. Bridges, T.D. Jickells, T.D. Davies, Z. Zeman and I. Hunova 353 Aerosol, precipitation and cloud water chemistry observations on the Czech Krusne Hory plateau adjacent to a heavily industrialised valley
- M. Grynkiewicz, Ż. Polkowska and J. Namieśnik 361 Determination of polycyclic aromatic hydrocarbons in bulk precipitation and runoff waters in an urban region (Poland)
- C. Agrell, P. Larsson, L. Okla and J. Agrell 371 PCB congeners in precipitation, wash out ratios and depositional fluxes within the Baltic Sea region, Europe
- S. Kato, P. Pochanart, J. Hirokawa, Y. Kajii, H. Akimoto, Y. Ozaki, K. Obi, T. Katsuno, D.G. Streets and N.P. Minko 385 The influence of Siberian forest fires on carbon monoxide concentrations at Happo, Japan

M. Vana and E. Tamm

- 391 Propagation of atmospheric aerosol and the area of representativeness of its measurements in the Baltic Sea region

List of Forthcoming Papers

I

Number 3

Part Special Issue

Seventh International Conference on Atmospheric Sciences and Applications to Air Quality (ASAAQ)

W.-D. Hsieh, R.-H. Chen, T.-L. Wu and T.-H. Lin

- 403 Engine performance and pollutant emission of an SI engine using ethanol-gasoline blended fuels

B.-J. Tsuang, C.-L. Chen, R.-C. Pan and J.-H. Liu

- 411 Quantification on source/receptor relationship of primary pollutants and secondary aerosols from ground sources—Part I. Theory

C.-L. Chen, B.-J. Tsuang, R.-C. Pan, C.-Y. Tu, J.-H. Liu, P.-H. Huang, H. Bai and M.-T. Cheng

- 421 Quantification on source/receptor relationship of primary pollutants and secondary aerosols from ground sources—Part II. Model description and case study

K. Saitoh, K. Sera, K. Hirano and T. Shirai

- 435 Chemical characterization of particles in winter-night smog in Tokyo

K. Sakamoto, M. Takeno, K. Sekiguchi, O. Ishitani, T. Fukuyama and M. Uchiyama

- 441 Development of an automatic continuous analyzer for water-soluble gases in air by combining an artificial lung with an ion chromatograph

Y.K. Kim, H.W. Lee, J.K. Park and Y.S. Moon

- 449 The stratosphere-troposphere exchange of ozone and aerosols over Korea

J.G. Watson and J.C. Chow

- 465 A wintertime PM_{2.5} episode at the Fresno, CA, supersite

L.-H. Young and C.-S. Wang

- 477 Characterization of *n*-alkanes in PM_{2.5} of the Taipei aerosol

N. Paldor, Y. Dvorkin and C. Basdevant

- 483 Improving the calculation of particle trajectories in the extra-tropical troposphere using standard NCEP fields

H.-C. Lu

- 491 The statistical characters of PM₁₀ concentration in Taiwan area

H. Terada, H. Ueda and Z. Wang

- 503 Trend of acid rain and neutralization by yellow sand in east Asia—a numerical study

Short communication

C.J. Walcek

- 511 Effects of wind shear on pollution dispersion

Publisher's note

Publisher's note

- 519 Other Papers presented at the ASAAQ Conference

Regular papers

J. Noda and E. Ljungström

- 521 Aerosol formation in connection with NO₃ oxidation of unsaturated alcohols

J.-J. Baik and J.-J. Kim

- 527 On the escape of pollutants from urban street canyons

L. Zhang, M.D. Moran, P.A. Makar, J.R. Brook and S. Gong

- 537 Modelling gaseous dry deposition in AURAMS: a unified regional air-quality modelling system

D. Podnar, D. Koračin and A. Panorska

- 561 Application of artificial neural networks to modeling the transport and dispersion of tracers in complex terrain

G.E. Orzechowska and S.E. Paulson

- 571 Production of OH radicals from the reactions of C₄–C₆ internal alkenes and styrenes with ozone in the gas phase

Technical note

A. Sandu

- 583 A Newton-Cotes quadrature approach for solving the aerosol coagulation equation

List of Forthcoming Papers

I

Number 4**Atmospheric Environment International Issue: Asia, Australasia and Antarctica****Asia**

H. Liu and J.C.L. Chan

- 591 An investigation of air-pollutant patterns under sea-land breezes during a severe air-pollution episode in Hong Kong

P.R. Nair, D. Chand, S. Lal, K.S. Modh,
M. Naja, K. Parameswaran, S. Ravindran
and S. Venkataramani

- 603 Temporal variations in surface ozone at Thumba (8.6°N, 77°E)-a tropical coastal site in India

T. Okuda, H. Kumata, M.P. Zakaria,
H. Naraoka, R. Ishiwatari and H. Takada

- 611 Source identification of Malaysian atmospheric polycyclic aromatic hydrocarbons nearby forest fires using molecular and isotopic compositions

S.-U. Park and Y.-H. Lee

- 619 Spatial distribution of wet deposition of nitrogen in South Korea

S.K. Mukhopadhyay, H. Biswas, T.K. De,
B.K. Sen, S. Sen and T.K. Jana

- 629 Impact of Sundarban mangrove biosphere on the carbon dioxide and methane mixing ratios at the NE Coast of Bay of Bengal, India

T. Kyotani and M. Iwatsuki

- 639 Characterization of soluble and insoluble components in PM_{2.5} and PM₁₀ fractions of airborne particulate matter in Kofu city, Japan

S.T. Leong, S. Muttamara and P. Laortanakul

- 651 Influence of benzene emission from motorcycles on Bangkok air quality

K.-H. Kim and M.-Y. Kim

- 663 A decadal shift in total gaseous mercury concentration levels in Seoul, Korea: changes between the late 1980s and the late 1990s

M.S. Reddy and C. Venkataraman

- 677 Inventory of aerosol and sulphur dioxide emissions from India: I—Fossil fuel combustion

M.S. Reddy and C. Venkataraman

- 699 Inventory of aerosol and sulphur dioxide emissions from India. Part II—biomass combustion

D.J. Sailor and H. Fan

- 713 Modeling the diurnal variability of effective albedo for cities

Technical note

E.E. Hindman and B.P. Upadhyay

- 727 Air pollution transport in the Himalayas of Nepal and Tibet during the 1995–1996 dry season

Australasia

J.G. Pickin, S.T.S. Yuen and H. Hennings

- 741 Waste management options to reduce greenhouse gas emissions from paper in Australia

T. Beer, T. Grant, D. Williams and H. Watson

- 753 Fuel-cycle greenhouse gas emissions from alternative fuels in Australian heavy vehicles

Antarctica

A.J. Aristarain and R.J. Delmas

- 765 Snow chemistry measurements on James Ross Island (Antarctic Peninsula) showing sea-salt aerosol modifications

Number 5

- A.J.F. Espinosa, M.T. Rodríguez,
F.J.B. de la Rosa and J.C.J. Sánchez
- W.-J. Lee, M.-C. Liow, P.-J. Tsai
and L.-T. Hsieh
- J.R. Dorsey, E. Nemitz, M.W. Gallagher,
D. Fowler, P.I. Williams, K.N. Bower
and K.M. Beswick
- B.D. Morrical and R. Zenobi
- E. Teinmaa, U. Kirso, M.R. Strommen
and R.M. Kamens
- J.S. Gaffney, N.A. Marley, P.J. Drayton,
P.V. Doskey, V.R. Kotamarthi,
M.M. Cunningham, J.C. Baird,
J. Dintaman and H.L. Hart
- H. Zhang, S.E. Lindberg, M.O. Barnett,
A.F. Vette and M.S. Gustin
- S.E. Lindberg, H. Zhang, A.F. Vette,
M.S. Gustin, M.O. Barnett and T. Kuiken
- T.L. Chan, G. Dong, C.W. Leung, C.S. Cheung
and W.T. Hung
- R. Djouad, B. Sportisse and N. Audiffren
- G.M.A. Filho, L.R. Andrade, M. Farina
and O. Malm
- I.E. Agranovski, V. Agranovski, T. Reponen,
K. Willeke and S.A. Grinshpun
- R.V. Ham, A. Adriaens, P. Prati, A. Zucchiatti,
L.V. Vaeck and F. Adams
- Technical note*
- H.J. Zimmelink, W.W.C. Gieskes,
P.M. Holland and J.W.H. Dacey
- List of Forthcoming Papers
- 773 A chemical speciation of trace metals for fine urban particles
- 781 Emission of polycyclic aromatic hydrocarbons from medical waste incinerators
- 791 Direct measurements and parameterisation of aerosol flux, concentration and emission velocity above a city
- 801 Determination of aromatic tracer compounds for environmental tobacco smoke aerosol by two step laser mass spectrometry
- 813 Atmospheric behaviour of oil-shale combustion fly ash in a chamber study
- 825 Field observations of regional and urban impacts on NO₂, ozone, UVB, and nitrate radical production rates in the Phoenix air basin
- 835 Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils. Part 1: simulation of gaseous mercury emissions from soils using a two-resistance exchange interface model
- 847 Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils: Part 2—effect of flushing flow rate and verification of a two-resistance exchange interface simulation model
- 861 Validation of a two-dimensional pollutant dispersion model in an isolated street canyon
- 873 Numerical simulation of aqueous-phase atmospheric models: use of a non-autonomous Rosenbrock method
- 881 Hg localisation in *Tillandsia usneoides* L. (Bromeliaceae), an atmospheric biomonitor
- 889 Development and evaluation of a new personal sampler for culturable airborne microorganisms
- 899 Static secondary ion mass spectrometry as a new analytical tool for measuring atmospheric particles on insulating substrates
- 911 Preservation of atmospheric dimethyl sulphide samples on Tenax in sea-to-air flux measurements
- I

Number 6

Atmospheric Environment International Issue: Western Europe and North America

Western Europe

- L. Brown, B. Syed, S.C. Jarvis,
R.W. Sneath, V.R. Phillips,
K.W.T. Goulding and C. Li
- 917 Development and application of a mechanistic model to estimate emission of nitrous oxide from UK agriculture

G. Kouvarakis and N. Mihalopoulos

F. Ledoux, E. Zhilinskaya, S. Bouhsina,
L. Courcot, M.-L. Bertho, A. Aboukaïs
and E. Puskaric

E. Manoli, D. Voutsas and C. Samara

L.B. Georgoulis, O. Hänninen, E. Samoli,
K. Katsouyanni, N. Künzli, L. Polanska,
Y. Bruinen de Bruin, S. Alm and M. Jantunen

B.M. Broderick and I.S. Marnane

M. Sozanska, U. Skiba and S. Metcalfe

M.E. Jenkin, T.J. Davies and J.R. Stedman

M. Coyle, R.I. Smith, J.R. Stedman,
K.J. Weston and D. Fowler

S. Vardoulakis, N. Gonzalez-Flesca
and B.E.A. Fisher

North America

H. Hung, P. Blanchard, G. Poole,
B. Thibert and C.H. Chiu

M. Ito, M.J. Mitchell and C.T. Driscoll

J.I. Levy, J.D. Spengler, D. Hlinka,
D. Sullivan and D. Moon

Y. Gao, E.D. Nelson, M.P. Field, Q. Ding,
H. Li, R.M. Sherrell, C.L. Gigliotti,
D.A. Van Ry, T.R. Glenn and S.J. Eisenreich

P.A. Roelle and V.P. Aneja

M.D. Geller, M. Chang, C. Sioutas,
B.D. Ostro and M.J. Lipsett

List of Forthcoming Papers

929 Seasonal variation of dimethylsulfide in the gas phase and of
methanesulfonate and non-sea-salt sulfate in the aerosols
phase in the Eastern Mediterranean atmosphere

939 EPR investigations of Mn^{2+} , Fe^{3+} ions and carbonaceous
radicals in atmospheric particulate aerosols during their
transport over the eastern coast of the English Channel

949 Chemical characterization and source identification/appor-
tionment of fine and coarse air particles in Thessaloniki,
Greece

963 Personal carbon monoxide exposure in five European cities
and its determinants

975 A comparison of the C_2 – C_9 hydrocarbon compositions of
vehicle fuels and urban air in Dublin, Ireland

987 Developing an inventory of N_2O emissions from British soils

999 The origin and day-of-week dependence of photochemical
ozone episodes in the UK

1013 Quantifying the spatial distribution of surface ozone
concentration in the UK

1025 Assessment of traffic-related air pollution in two street
canyons in Paris: implications for exposure studies

1041 Measurement of particle-bound polychlorinated dibenzo-*p*-
dioxins and dibenzofurans (PCDD/Fs) in Arctic air at Alert,
Nunavut, Canada

1051 Spatial patterns of precipitation quantity and chemistry and
air temperature in the Adirondack region of New York

1063 Using CALPUFF to evaluate the impacts of power plant
emissions in Illinois: model sensitivity and implications

1077 Characterization of atmospheric trace elements on $PM_{2.5}$
particulate matter over the New York–New Jersey harbor
estuary

1087 Characterization of ammonia emissions from soils in the
upper coastal plain, North Carolina

1099 Indoor/outdoor relationship and chemical composition
of fine and coarse particles in the southern California
deserts

I

Number 7

L. Kangas and S. Syri

F. Borchi and A. Marengo

S.J. Jeong and M.J. Andrews

1111 Regional nitrogen deposition model for integrated assess-
ment of acidification and eutrophication

1123 Discrimination of air masses near the extratropical tropo-
pause by multivariate analyses from MOZAIC data

1137 Application of the k – ϵ turbulence model to the high
Reynolds number skimming flow field of an urban street
canyon

J.C. Carvalho, D. Anfossi, S.T. Castelli and G.A. Degrazia	1147	Application of a model system for the study of transport and diffusion in complex terrain to the TRACT experiment
J.A. Fernández, J.R. Aboal, J.A. Couto and A. Carballeira	1163	Sampling optimization at the sampling-site scale for monitoring atmospheric deposition using moss chemistry
J. Rudolph, E. Czuba, A.L. Norman, L. Huang and D. Ernst	1173	Stable carbon isotope composition of nonmethane hydrocarbons in emissions from transportation related sources and atmospheric observations in an urban atmosphere
E. Palazzi	1183	A simple analytical method for determining the atmospheric dispersion of upward-directed high velocity releases
J.A. van Aardenne, P.J.H. Builtjes, L. Hordijk, C. Kroeze and M.P.J. Pulles	1195	Using wind-direction-dependent differences between model calculations and field measurements as indicator for the inaccuracy of emission inventories
J.H. Offenberg and J.E. Baker	1205	The influence of aerosol size and organic carbon content on gas/particle partitioning of polycyclic aromatic hydrocarbons (PAHs)
S. Preunkert, D. Wagenbach and M. Legrand	1221	Improvement and characterization of an automatic aerosol sampler for remote (glacier) sites
<i>Short communications</i>		
J.A. Benesch and M.S. Gustin	1233	Uptake of trifluoroacetate by <i>Pinus ponderosa</i> via atmospheric pathway
O.J. Nielsen, F.M. Nicolaisen, C. Bacher, M.D. Hurley, T.J. Wallington and K.P. Shine	1237	Infrared spectrum and global warming potential of SF ₅ CF ₃
<i>Technical note</i>		
Y. Komazaki, S. Hashimoto, T. Inoue and S. Tanaka	1241	Direct collection of HNO ₃ and HCl by a diffusion scrubber without inlet tubes
<i>New Directions</i>		
P.W. Seakins, D.L. Lansley, A. Hodgson, N. Huntley and F. Pope	1247	New Directions: Mobile laboratory reveals new issues in urban air quality
List of Forthcoming Papers	I	

Number 8

Atmospheric Environment International Issue: Asia, Western Europe, Eastern Europe and Africa & The Middle East

Asia

B. Sapkota and R. Dhaubhadel	1249	Atmospheric turbidity over Kathmandu valley
K.F. Ho, S.C. Lee, P.K.K. Louie and S.C. Zou	1259	Seasonal variation of carbonyl compound concentrations in urban area of Hong Kong
R. Höller, S. Tohno, M. Kasahara and R. Hitzenberger	1267	Long-term characterization of carbonaceous aerosol in Uji, Japan
S. Saito, I. Nagao and H. Tanaka	1277	Relationship of NO _x and NMHC to photochemical O ₃ production in a coastal and metropolitan areas of Japan
S.S. Park, Y.J. Kim and K. Fung	1287	PM _{2.5} carbon measurements in two urban areas: Seoul and Kwangju, Korea
G. Wang, L. Huang, S. Gao, S. Gao and L. Wang	1299	Characterization of water-soluble species of PM ₁₀ and PM _{2.5} aerosols in urban area in Nanjing, China
Z. Klimont, D.G. Streets, S. Gupta, J. Cofala, F. Lixin and Y. Ichikawa	1309	Anthropogenic emissions of non-methane volatile organic compounds in China

Western Europe

- M. Schaap, K. Müller and H.M. ten Brink 1323 Constructing the European aerosol nitrate concentration field from quality analysed data
- C. Economou and N. Mihalopoulos 1337 Formaldehyde in the rainwater in the eastern Mediterranean: occurrence, deposition and contribution to organic carbon budget
- G. Gangoiti, L. Alonso, M. Navazo, A. Albizuri, G. Perez-Landa, M. Matabuena, Valdenebro, M. Maruri, J.A. García and M.M. Millán 1349 Regional transport of pollutants over the Bay of Biscay: analysis of an ozone episode under a blocking anticyclone in west-central Europe
- D.B. Ryall, R.G. Derwent, A.J. Manning, A.L. Redington, J. Corden, W. Millington, P.G. Simmonds, S. O'Doherty, N. Carslaw and G.W. Fuller 1363 The origin of high particulate concentrations over the United Kingdom, March 2000
- J. Aherne and E.P. Farrell 1379 Deposition of sulphur, nitrogen and acidity in precipitation over Ireland: chemistry, spatial distribution and long-term trends
- M. Nolle, R. Ellul, G. Heinrich and H. Güsten 1391 A long-term study of background ozone concentrations in the central Mediterranean—diurnal and seasonal variations on the island of Gozo

Discussions

- N.T. Loux 1403 Discussion on "Total gaseous mercury exchange between air and water river and sea surface in Swedish coastal regions"
- K. Gårdfeldt, I. Wängberg, J. Sommar and O. Lindqvist 1405 Reply to discussion on "Total gaseous mercury exchange between air and water at river and sea surfaces in Swedish coastal regions"

Eastern Europe

- S.V. Kakareka 1407 Sources of persistent organic pollutants emission on the territory of Belarus

Africa & The Middle East

- R. Kurkjian, C. Dunlap and A.R. Flegat 1421 Lead isotope tracking of atmospheric response to post-industrial conditions in Yerevan, Armenia

List of Forthcoming Papers

I

Number 9

- G.W. Fuller, D.C. Carslaw and H.W. Lodge 1431 An empirical approach for the prediction of daily mean PM₁₀ concentrations
- L. Pommer, J. Fick, B. Andersson and C. Nilsson 1443 Development of a NO₂ scrubber for accurate sampling of ambient levels of terpenes
- S.-J. Lee, K.-C. Park and C.-W. Park 1453 Wind tunnel observations about the shelter effect of porous fences on the sand particle movements
- D. Čeburnis, J. Šakalys, K. Armolaitis, D. Valiulis and K. Kvietkus 1465 In-stack emissions of heavy metals estimated by moss biomonitoring method and snow-pack analysis
- T.D. Durbin, R.D. Wilson, J.M. Norbeck, J.W. Miller, T. Huai and S.H. Rhee 1475 Estimates of the emission rates of ammonia from light-duty vehicles using standard chassis dynamometer test cycles
- W.E. Asher, J.F. Pankow, G.B. Erdakos and J.H. Seinfeld 1483 Estimating the vapor pressures of multi-functional oxygen-containing organic compounds using group contribution methods

- | | | |
|--|------|--|
| M. Ito and D. Shooter | 1499 | Detection and determination of volatile metal compounds in the atmosphere by a Mist-UV sampling system |
| D.W. Bond, S. Steiger, R. Zhang, X. Tie and R.E. Orville | 1509 | The importance of NO _x production by lightning in the tropics |
| S.-Y. Chang and C.-T. Lee | 1521 | Applying GC-TCD to investigate the hygroscopic characteristics of mixed aerosols |
| K. Asakuma, H. Kuze, N. Takeuchi and T. Yahagi | 1531 | Detection of biomass burning smoke in satellite images using texture analysis |
| A.T. Chan | 1543 | Indoor-outdoor relationships of particulate matter and nitrogen oxides under different outdoor meteorological conditions |
| <i>Short communication</i> | | |
| M. Löflund, A. Kasper-Giebl, B. Schuster, H. Giebl, R. Hitzengerger and H. Puxbaum | 1553 | Formic, acetic, oxalic, malonic and succinic acid concentrations and their contribution to organic carbon in cloud water |
| <i>Technical note</i> | | |
| D.J. Larson and J.S. Nasstrom | 1559 | Shared- and distributed-memory parallelization of a Lagrangian atmospheric dispersion model |
| List of Forthcoming Papers | I | |

Number 10

Part Special Issue

NADP 2000—Ten Years After the Clean Air Act Amendments

Guest Editors

R. Artz and V.C. Bowersox

Announcement

- | | | |
|---|------|-------------------------------------|
| H. Sing, P. Brimblecombe and J. Kiebert | 1565 | Announcement—Haagen-Smit Award 2001 |
|---|------|-------------------------------------|

NADP 2000 Papers

- | | | |
|--|------|---|
| V.R. Kelly, G.M. Lovett, K.C. Weathers and G.E. Likens | 1569 | Trends in atmospheric concentration and deposition compared to regional and local pollutant emissions at a rural site in southeastern New York, USA |
| N.E. Peters, T.P. Meyers and B.T. Aulenbach | 1577 | Status and trends in atmospheric deposition and emissions near Atlanta, Georgia, 1986–99 |
| G.B. Lawrence | 1589 | Persistent episodic acidification of streams linked to acid rain effects on soil |
| N.C. Kamman and D.R. Engstrom | 1599 | Historical and present fluxes of mercury to Vermont and New Hampshire lakes inferred from ²¹⁰ Pb dated sediment cores |
| J.S. Schilling and M.E. Lehman | 1611 | Bioindication of atmospheric heavy metal deposition in the Southeastern US using the moss <i>Thuidium delicatulum</i> |
| R.H. Grant and K.L. Scheeringa | 1619 | Estimating climate effects on the atmospheric contribution to the potential available inorganic nitrogen in eastern United States soils |
| S.S. Gbondo-Tugbawa and C.T. Driscoll | 1631 | Evaluation of the effects of future controls on sulfur dioxide and nitrogen oxide emissions on the acid-base status of a northern forest ecosystem |

Short communication

- J.T. Tessier, R.D. Masters and D.J. Raynal 1645 Changes in base cation deposition across New York State and adjacent New England following implementation of the 1990 Clean Air Act amendments

Technical note

- L. Smith 1649 Analysis of commented vs. uncommented samples from the Clean Air Status and Trends Network (CASTNet)

**Atmospheric Environment International
Papers—North America**

- S.B. Idso, C.D. Idso and R.C. Balling Jr. 1655 Seasonal and diurnal variations of near-surface atmospheric CO₂ concentration within a residential sector of the urban CO₂ dome of Phoenix, AZ, USA
- W.P. Robarge, J.T. Walker, R.B. McCulloch and G. Murray 1661 Atmospheric concentrations of ammonia and ammonium at an agricultural site in the southeast United States
- M. Singh, P.A. Jaques and C. Sioutas 1675 Size distribution and diurnal characteristics of particle-bound metals in source and receptor sites of the Los Angeles Basin
- Y. Tang 1691 A case study of nesting simulation for the Southern Oxidants Study 1999 at Nashville
- J.-S. Park, T.L. Wade and S.T. Sweet 1707 Atmospheric deposition of PAHs, PCBs, and organochlorine pesticides to Corpus Christi Bay, Texas
- C.A. Breed, J.M. Arocena and D. Sutherland 1721 Possible sources of PM₁₀ in Prince George (Canada) as revealed by morphology and in situ chemical composition of particulate
- List of Forthcoming Papers I

Special Issue**NADP 2000—Ten Years After the Clean Air Act Amendments**

(Originally published as part of *Atmospheric Environment* 36/10)

Guest Editors

R. Artz and V.C. Bowersox

- V.R. Kelly, G.M. Lovett, K.C. Weathers and G.E. Likens S1569 Trends in atmospheric concentration and deposition compared to regional and local pollutant emissions at a rural site in southeastern New York, USA
- N.E. Peters, T.P. Meyers and B.T. Aulenbach S1577 Status and trends in atmospheric deposition and emissions near Atlanta, Georgia, 1986–99
- G.B. Lawrence S1589 Persistent episodic acidification of streams linked to acid rain effects on soil
- N.C. Kamman and D.R. Engstrom S1599 Historical and present fluxes of mercury to Vermont and New Hampshire lakes inferred from ²¹⁰Pb dated sediment cores
- J.S. Schilling and M.E. Lehman S1611 Bioindication of atmospheric heavy metal deposition in the Southeastern US using the moss *Thuidium delicatulum*
- R.H. Grant and K.L. Scheeringa S1619 Estimating climate effects on the atmospheric contribution to the potential available inorganic nitrogen in eastern United States soils

S.S. Gbondo-Tugbawa and C.T. Driscoll

- S1631 Evaluation of the effects of future controls on sulfur dioxide and nitrogen oxide emissions on the acid-base status of a northern forest ecosystem

Short communication

J.T. Tessier, R.D. Masters and D.J. Raynal

- S1645 Changes in base cation deposition across New York State and adjacent New England following implementation of the 1990 Clean Air Act amendments

Technical note

L. Smith

- S1649 Analysis of commented vs. uncommented samples from the Clean Air Status and Trends Network (CASTNet)

List of Forthcoming Papers

I

Number 11*Fastrack papers*

M. Neuberger, H. Moshhammer and M. Kundi

- 1733 Declining ambient air pollution and lung function improvement in Austrian children

H. Geiger, J. Kleffmann and P. Wiesen

- 1737 Smog chamber studies on the influence of diesel exhaust on photosmog formation

Regular papers

G.C. Morrison and W.W. Nazaroff

- 1749 The rate of ozone uptake on carpet: mathematical modeling

A. Kiendler and F. Arnold

- 1757 Unambiguous identification and measurement of sulfuric acid cluster chemiions in aircraft jet engine exhaust

A.-M. Manninen, P. Pasanen and J.K. Holopainen

- 1763 Comparing the VOC emissions between air-dried and heat-treated Scots pine wood

A. Chaloulakou and I. Mavroidis

- 1769 Comparison of indoor and outdoor concentrations of CO at a public school. Evaluation of an indoor air quality model

S.M. Bortnick and S.L. Stetzer

- 1783 Sources of variability in ambient air toxics monitoring data

S.R. Hanna and J.M. Davis

- 1793 Evaluation of a photochemical grid model using estimates of concentration probability density functions

G.H. Mount, B. Rumburg, J. Havig, B. Lamb, H. Westberg, D. Yonge, K. Johnson and R. Kincaid

- 1799 Measurement of atmospheric ammonia at a dairy using differential optical absorption spectroscopy in the mid-ultraviolet

T.L. Thatcher, A.C.K. Lai, R. Moreno-Jackson, R.G. Sextro and W.W. Nazaroff

- 1811 Effects of room furnishings and air speed on particle deposition rates indoors

S. Eichkorn, K.-H. Wohlfrom, F. Arnold and R. Busen

- 1821 Massive positive and negative chemiions in the exhaust of an aircraft jet engine at ground-level: mass distribution measurements and implications for aerosol formation

S. Decesari, M.C. Facchini, E. Matta, M. Mircea, S. Fuzzi, A.R. Chughtai and D.M. Smith

- 1827 Water soluble organic compounds formed by oxidation of soot

D.W.T. Griffith, R. Leuning, O.T. Denmead and I.M. Jamie

- 1833 Air-land exchanges of CO₂, CH₄ and N₂O measured by FTIR spectrometry and micrometeorological techniques

M.A.J. Harrison, J.N. Cape and M.R. Heal

- 1843 Experimentally determined Henry's Law coefficients of phenol, 2-methylphenol and 2-nitrophenol in the temperature range 281–302 K

- | | | |
|--|------|--|
| J.L. Hand, S.M. Kreidenweis, N. Kreisberg,
S. Hering, M. Stolzenburg, W. Dick
and P.H. McMurry | 1853 | Comparisons of aerosol properties measured by impactors and light scattering from individual particles: refractive index, number and volume concentrations, and size distributions |
| K.M. Zhang and A.S. Wexler | 1863 | Modeling the number distributions of urban and regional aerosols: theoretical foundations |
| B. Momen, P.D. Anderson, J.L.J. Houpiš
and J.A. Helms | 1875 | Growth of ponderosa-pine seedlings as affected by air pollution |
| C.-T. Lee and S.-Y. Chang | 1883 | A GC-TCD method for measuring the liquid water mass of collected aerosols |
| J.J. Orlando, G.S. Tyndall, S.B. Bertman,
W. Chen and J.B. Burkholder | 1895 | Rate coefficient for the reaction of OH with $\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OONO}_2$ (MPAN) |
| <i>Technical note</i> | | |
| M. Sharan, A.K. Yadav and M. Modani | 1901 | Simulation of short-range diffusion experiment in low-wind convective conditions |
| <i>Discussions</i> | | |
| A. Kasper-Giebl | 1907 | Control of solute concentrations in cloud and fog water by liquid water content |
| W. Elbert, M. Krämer and M.O. Andreae | 1909 | Reply to discussion on "Control of solute concentrations in cloud and fog water by liquid water content" |
| List of Forthcoming Papers | I | |

**Special Issue Supplement to Volume 36, 2002: Evaluation of Modeled Emission Inventories of Ozone Precursors.
A Case Study for an Urban Area (Augsburg, Germany)**

Guest Editors

Wolfgang Seiler, Ranier Friedrich and Franz Slemr

- | | | |
|--|-----|---|
| F. Slemr, R. Friedrich and W. Seiler | S1 | The research project EVA—general objectives and main results |
| J. Kühlwein, B. Wickert, A. Trukenmüller,
J. Theloke and R. Friedrich | S7 | Emission modelling in high spatial and temporal resolution and calculation of pollutant concentrations for comparisons with measured concentrations |
| N. Kalthoff, U. Corsmeier, K. Schmidt,
Ch. Kottmeier, F. Fiedler, M. Habram
and F. Slemr | S19 | Emissions of the city of Augsburg determined using the mass balance method |
| H.-J. Panitz, K. Nester and F. Fiedler | S33 | Mass budget simulation of NO_x and CO for the evaluation of calculated emissions for the city of Augsburg (Germany) |
| J. Kühlwein, R. Friedrich, N. Kalthoff,
U. Corsmeier, F. Slemr, M. Habram
and M. Möllmann-Coers | S53 | Comparison of modelled and measured total CO and NO_x emission rates |
| D. Klemp, K. Mannschreck, H.W. Pätz,
M. Habram, P. Matuska and F. Slemr | S61 | Determination of anthropogenic emission ratios in the Augsburg area from concentration ratios: results from long-term measurements |
| K. Mannschreck, D. Klemp, D. Kley,
R. Friedrich, J. Kühlwein, B. Wickert,
P. Matuska, M. Habram and F. Slemr | S81 | Evaluation of an emission inventory by comparisons of modelled and measured emission ratios of individual HCs, CO and NO_x |

M. Möllmann-Coers, D. Klemp,
K. Mannschreck and F. Slemr

S95 Determination of anthropogenic emissions in the Augsburg
area by the source-tracer-ratio method

M. Möllmann-Coers, D. Klemp,
K. Mannschreck and F. Slemr

S109 Statistical study of the diurnal variation of modeled and
measured NMHC contributions

List of Forthcoming Papers

I

Number 12

Atmospheric Environment International Issue: Asia

- | | | |
|---|------|--|
| J.J. Lin | 1911 | Characterization of the major chemical species in PM _{2.5} in the Kaohsiung City, Taiwan |
| G.-C. Fang, C.-N. Chang, Y.-S. Wu, P.P.-C. Fu, C.-J. Yang, C.-D. Chen and S.-C. Chang | 1921 | Ambient suspended particulate matters and related chemical species study in central Taiwan, Taichung during 1998–2001 |
| S.-C. Lee, H. Guo, W.-M. Li and L.-Y. Chan | 1929 | Inter-comparison of air pollutant concentrations in different indoor environments in Hong Kong |
| G. Wang, S. Niu, C. Liu and L. Wang | 1941 | Identification of dicarboxylic acids and aldehydes of PM ₁₀ and PM _{2.5} aerosols in Nanjing, China |
| L. Cao, W. Tian, B. Ni, Y. Zhang and P. Wang | 1951 | Preliminary study of airborne particulate matter in a Beijing sampling station by instrumental neutron activation analysis |
| Y.C. Lee, G. Calori, P. Hills and G.R. Carmichael | 1957 | Ozone episodes in urban Hong Kong 1994–1999 |
| K. Na, Y.P. Kim and K.C. Moon | 1969 | Seasonal variation of the C ₂ –C ₉ hydrocarbons concentrations and compositions emitted from motor vehicles in a Seoul tunnel |
| C. Venkataraman, C.K. Reddy, S. Josson and M.S. Reddy | 1979 | Aerosol size and chemical characteristics at Mumbai, India, during the INDOEX-IFP (1999) |
| M.-Y. Hwa, C.-C. Hsieh, T.-C. Wu and L.-F.W. Chang | 1993 | Real-world vehicle emissions and VOCs profile in the Taipei tunnel located at Taiwan Taipei area |
| K.S. Lam, A. Ding, L.Y. Chan, T. Wang and T.J. Wang | 2003 | Ground-based measurements of total ozone and UV radiation by the Brewer spectrophotometer #115 at Hong Kong |
| H.P. Liu and J.C.L. Chan | 2013 | Boundary layer dynamics associated with a severe air-pollution episode in Hong Kong |
| T. Chetwittayachan, D. Shimazaki and K. Yamamoto | 2027 | A comparison of temporal variation of particle-bound polycyclic aromatic hydrocarbons (pPAHs) concentration in different urban environments: Tokyo, Japan, and Bangkok, Thailand |
| C.Y. Chan, L.Y. Chan, X.M. Wang, Y.M. Liu, S.C. Lee, S.C. Zou, G.Y. Sheng and J.M. Fu | 2039 | Volatile organic compounds in roadside microenvironments of metropolitan Hong Kong |
| C.-L. Chen, B.-J. Tsuang, C.-Y. Tu, W.-L. Cheng and M.-D. Lin | 2049 | Wintertime vertical profiles of air pollutants over a suburban in central Taiwan |
| S. Yonemura, H. Tsuruta, T. Maeda, S. Kawashima, S. Sudo and M. Hayashi | 2061 | Tropospheric ozone variability over Singapore from August 1996 to December 1999 |
| P. Goyal and T.V.B.P.S. Rama Krishna | 2071 | Dispersion of pollutants in convective low wind: a case study of Delhi |

Erratum

A. Sandu

- 2081 Erratum to "A Newton-Cotes quadrature approach for solving the aerosol coagulation equation" [Atmospheric Environment 36(3), 583-589]

List of Forthcoming Papers

I

Number 13

Review

S.M.S. Nagendra and M. Khare

- 2083 Line source emission modelling

Regular papers

X. Yao, M. Fang and C.K. Chan

- 2099 Size distributions and formation of dicarboxylic acids in atmospheric particles

A. Kousa, J. Kukkonen, A. Karppinen,
P. Aarnio and T. Koskentalo

- 2109 A model for evaluating the population exposure to ambient air pollution in an urban area

S. Vardoulakis, B.E.A. Fisher,
N. Gonzalez-Flesca and K. Pericleous

- 2121 Model sensitivity and uncertainty analysis using roadside air quality measurements

O.R. Bullock Jr. and K.A. Brehme

- 2135 Atmospheric mercury simulation using the CMAQ model: formulation description and analysis of wet deposition results

P.G. Simmonds, B.R. Grealley, S. Olivier,
G. Nickless, K.M. Cooke and R.N. Dietz

- 2147 The background atmospheric concentrations of cyclic perfluorocarbon tracers determined by negative ion-chemical ionization mass spectrometry

J.F. Burkhart, M.A. Hutterli and R.C. Bales

- 2157 Partitioning of formaldehyde between air and ice at -35°C to -5°C

A. Venkatram

- 2165 Accounting for averaging time in air pollution modeling

C.-W. Park and S.-J. Lee

- 2171 Verification of the shelter effect of a windbreak on coal piles in the POSCO open storage yards at the Kwang-Yang works

S.E. Bauer and B. Langmann

- 2187 An atmosphere-chemistry model on the meso- γ scale: model description and evaluation

C.E. Canosa-Mas, J.M. Duffy, M.D. King,
K.C. Thompson and R.P. Wayne

- 2201 The atmospheric chemistry of methyl salicylate—reactions with atomic chlorine and with ozone

J. Osán, B. Alföldy, S. Török
and R.V. Grieken

- 2207 Characterisation of wood combustion particles using electron probe microanalysis

B. Wehner, W. Birmili, T. Gnauk
and A. Wiedensohler

- 2215 Particle number size distributions in a street canyon and their transformation into the urban-air background: measurements and a simple model study

G. Huang, X. Zhou, G. Deng, H. Qiao
and K. Civerolo

- 2225 Measurements of atmospheric nitrous acid and nitric acid

R.C. Henry, Y.-S. Chang and C.H. Spiegelman

- 2237 Locating nearby sources of air pollution by nonparametric regression of atmospheric concentrations on wind direction

E. Fedorovich and J. Thäter

- 2245 A wind tunnel study of gaseous tracer dispersion in the convective boundary layer capped by a temperature inversion

*Technical note*E.-G. Brunke, C. Labuschagne, B. Parker,
D. van der Spuy and S. Whittlestone

- 2257 Cape Point GAW Station ^{222}Rn detector: factors affecting sensitivity and accuracy

Letters to the editor

- | | | |
|---|------|--|
| M.R. Ames, S.G. Zemba, R.J. Yamartino,
P.A. Valberg and L.C. Green | 2263 | Comments on: Using CALPUFF to evaluate the impacts of power plant emissions in Illinois: model sensitivity and implications |
| J.I. Levy, J.D. Spengler, D. Hlinka,
D. Sullivan and D. Moon | 2267 | Authors' response |
| <i>Obituary</i> | | |
| B.L. Hemming | 2271 | Glen R. Cass 1947–2001 |
| <i>New Directions</i> | | |
| N. Pirrone, J. Pacyna and J. Munthe | 2275 | New Directions: Correspondence on "The European Air Quality Framework Directive and atmospheric mercury: the wrong tool for the job" |
| D.S. Lee, D. Fowler and E. Nemitz | 2276 | Reply from the authors of Lee et al. (2001) |
| MAC 2279 | | Announcement |
| List of Forthcoming Papers | I | |

Number 14**Atmospheric Environment International Issue: North America, Central and South America and Africa & The Middle East****North America**

- | | | |
|--|------|---|
| J. Dachs, T.R. Glenn IV, C.L. Gigliotti,
P. Brunciak, L.A. Totten, E.D. Nelson,
T.P. Franz and S.J. Eisenreich | 2281 | Processes driving the short-term variability of polycyclic aromatic hydrocarbons in the Baltimore and northern Chesapeake Bay atmosphere, USA |
| A.D. Jazcilevich, A.R. García
and L.G. Ruíz-Suárez | 2297 | A modeling study of air pollution modulation through land-use change in the Valley of Mexico |
| C.D. Pollman, W.M. Landing, J.J. Perry Jr.
and T. Fitzpatrick | 2309 | Wet deposition of phosphorus in Florida |
| G. Beaney and W.A. Gough | 2319 | The influence of tropospheric ozone on the air temperature of the city of Toronto, Ontario, Canada |
| L.C. Marr and R.A. Harley | 2327 | Spectral analysis of weekday–weekend differences in ambient ozone, nitrogen oxide, and non-methane hydrocarbon time series in California |
| D.W. Clow, G.P. Ingersoll, M.A. Mast,
J.T. Turk and D.H. Campbell | 2337 | Comparison of snowpack and winter wet-deposition chemistry in the Rocky Mountains, USA: implications for winter dry deposition |
| M. Moya, S.N. Pandis and M.Z. Jacobson | 2349 | Is the size distribution of urban aerosols determined by thermodynamic equilibrium? An application to Southern California |

Central and South America

- | | | |
|---|------|--|
| R.M.B. Cerón, H.G. Padilla, R.D. Belmont,
M.C.B. Torres, R.M. García and A.P. Báez | 2367 | Rainwater chemical composition at the end of the mid-summer drought in the Caribbean shore of the Yucatan Peninsula |
| R. Romero, R. Sienra and P. Richter | 2375 | Efficient screening method for determination of polycyclic aromatic hydrocarbons (PAHs) in airborne particles. Application in real samples of Santiago–Chile metropolitan urban area |
| D. de Almeida Azevedo, C.Y.M. dos Santos and
F.R. de Aquino Neto | 2383 | Identification and seasonal variation of atmospheric organic pollutants in Campos dos Goytacazes, Brazil |

- | | | |
|--|------|---|
| M. Flues, P. Hama, M.J.L. Lemes,
E.S.K. Dantas and A. Fornaro | 2397 | Evaluation of the rainwater acidity of a rural region due to a coal-fired power plant in Brazil |
| E. Grosjean, D. Grosjean, L.F. Woodhouse
and Y.-J. Yang | 2405 | Peroxyacetyl nitrate and peroxypropionyl nitrate in Porto Alegre, Brazil |
| H.J.I. Rinne, A.B. Guenther, J.P. Greenberg
and P.C. Harley | 2421 | Isoprene and monoterpene fluxes measured above Amazonian rainforest and their dependence on light and temperature |
| L.A. Martinelli, P.B. Camargo, L.B.L.S. Lara,
R.L. Victoria and P. Artaxo | 2427 | Stable carbon and nitrogen isotopic composition of bulk aerosol particles in a C4 plant landscape of southeast Brazil |
| Africa & The Middle East | | |
| K.-H. Kim and M.-Y. Kim | 2433 | The distributions of BTEX compounds in the ambient atmosphere of the Nan-Ji-Do abandoned landfill site in Seoul |
| K. Moloi, S. Chimidza, E.S. Lindgren,
A. Viksna and P. Standzenieks | 2447 | Black carbon, mass and elemental measurements of airborne particles in the village of Serowe, Botswana |
| P.G.L. Baker, E.-G. Brunke, F. Slemr
and A.M. Crouch | 2459 | Atmospheric mercury measurements at Cape Point, South Africa |
| List of Forthcoming Papers | I | |

Numbers 15–16

Special issue

Air/Snow/Ice Interactions in the Arctic: Results from ALERT 2000 and SUMMIT 2000

Guest Editors

Jan W. Bottenheim, Paul B. Shepson and Bill Sturges

Editorial

- | | | |
|---|------|--|
| J.W. Bottenheim, J.E. Dibb, R.E. Honrath
and P.B. Shepson | 2467 | An introduction to the ALERT 2000 and SUMMIT 2000 Arctic research studies |
| W.R. Simpson, M.D. King, H.J. Beine,
R.E. Honrath and M.C. Peterson | 2471 | Atmospheric photolysis rate coefficients during the Polar Sunrise Experiment ALERT2000 |
| G. Hönninger and U. Platt | 2481 | Observations of BrO and its vertical distribution during surface ozone depletion at Alert |
| M. Narukawa, K. Kawamura, S.-M. Li
and J.W. Bottenheim | 2491 | Dicarboxylic acids in the Arctic aerosols and snowpacks collected during ALERT 2000 |
| J.E. Dibb, M. Arsenault, M.C. Peterson
and R.E. Honrath | 2501 | Fast nitrogen oxide photochemistry in Summit, Greenland snow |
| J.E. Dibb and M. Arsenault | 2513 | Shouldn't snowpacks be sources of monocarboxylic acids? |
| J. Yang, R.E. Honrath, M.C. Peterson,
J.E. Dibb, A.L. Sumner, P.B. Shepson,
M. Frey, H.-W. Jacobi, A. Swanson
and N. Blake | 2523 | Impacts of snowpack emissions on deduced levels of OH and peroxy radicals at Summit, Greenland |
| J.W. Bottenheim, J.D. Fuentes, D.W. Tarasick
and K.G. Anlauf | 2535 | Ozone in the Arctic lower troposphere during winter and spring 2000 (ALERT2000) |
| M. Peterson, D. Barber and S. Green | 2545 | Monte Carlo modeling and measurements of actinic flux levels in Summit, Greenland snowpack |

- A.L. Sumner, P.B. Shepson, A.M. Grannas, J.W. Bottenheim, K.G. Anlauf, D. Worthy, W.H. Schroeder, A. Steffen, F. Dominé, S. Perrier and S. Houdier 2553 Atmospheric chemistry of formaldehyde in the Arctic troposphere at Polar Sunrise, and the influence of the snowpack
- R. Qiu, S.A. Green, R.E. Honrath, M.C. Peterson, Y. Lu and M. Dziobak 2563 Measurements of $J_{\text{NO}_3^-}$ in snow by nitrate-based actinometry
- H. Boudries, J.W. Bottenheim, C. Guimbaud, A.M. Grannas, P.B. Shepson, S. Houdier, S. Perrier and F. Dominé 2573 Distribution and trends of oxygenated hydrocarbons in the high Arctic derived from measurements in the atmospheric boundary layer and interstitial snow air during the ALERT2000 field campaign
- J.W. Bottenheim, H. Boudries, P.C. Brickell and E. Atlas 2585 Alkenes in the Arctic boundary layer at Alert, Nunavut, Canada
- D. Helmig, J. Boulter, D. David, J.W. Birks, N.J. Cullen, K. Steffen, B.J. Johnson and S.J. Oltmans 2595 Ozone and meteorological boundary-layer conditions at Summit, Greenland, during 3–21 June 2000
- S. Houdier, S. Perrier, F. Dominé, A. Cabanes, L. Legagneux, A.M. Grannas, C. Guimbaud, P.B. Shepson, H. Boudries and J.W. Bottenheim 2609 Acetaldehyde and acetone in the Arctic snowpack during the ALERT2000 campaign. Snowpack composition, incorporation processes and atmospheric impact
- H.-W. Jacobi, M.M. Frey, M.A. Hutterli, R.C. Bales, O. Schrems, N.J. Cullen, K. Steffen and C. Koehler 2619 Measurements of hydrogen peroxide and formaldehyde exchange between the atmosphere and surface snow at Summit, Greenland
- R.E. Honrath, Y. Lu, M.C. Peterson, J.E. Dibb, M.A. Arsenault, N.J. Cullen and K. Steffen 2629 Vertical fluxes of NO_x , HONO, and HNO_3 above the snowpack at Summit, Greenland
- C. Strong, J.D. Fuentes, R.E. Davis and J.W. Bottenheim 2641 Thermodynamic attributes of Arctic boundary layer ozone depletion
- A. Steffen, W. Schroeder, J. Bottenheim, J. Narayan and J.D. Fuentes 2653 Atmospheric mercury concentrations: measurements and profiles near snow and ice surfaces in the Canadian Arctic during Alert 2000
- W.R. Simpson, M.D. King, H.J. Beine, R.E. Honrath and X. Zhou 2663 Radiation-transfer modeling of snow-pack photochemical processes during ALERT 2000
- A.L. Swanson, N.J. Blake, J.E. Dibb, M.R. Albert, D.R. Blake and F.S. Rowland 2671 Photochemically induced production of CH_3Br , CH_3I , $\text{C}_2\text{H}_5\text{I}$, ethene, and propene within surface snow at Summit, Greenland
- D. Toom-Sauntry and L.A. Barrie 2683 Chemical composition of snowfall in the high Arctic: 1990–1994
- S. Perrier, S. Houdier, F. Dominé, A. Cabanes, L. Legagneux, A.L. Sumner and P.B. Shepson 2695 Formaldehyde in Arctic snow. Incorporation into ice particles and evolution in the snowpack
- H.J. Beine, F. Dominé, W. Simpson, R.E. Honrath, R. Sparapani, X. Zhou and M. King 2707 Snow-pile and chamber experiments during the Polar Sunrise Experiment 'Alert 2000': exploration of nitrogen chemistry
- C.W. Spicer, R.A. Plastridge, K.L. Foster, B.J. Finlayson-Pitts, J.W. Bottenheim, A.M. Grannas and P.B. Shepson 2721 Molecular halogens before and during ozone depletion events in the Arctic at polar sunrise: concentrations and sources
- A.M. Grannas, P.B. Shepson, C. Guimbaud, A.L. Sumner, M. Albert, W. Simpson, F. Dominé, H. Boudries, J. Bottenheim, H.J. Beine, R. Honrath and X. Zhou 2733 A study of photochemical and physical processes affecting carbonyl compounds in the Arctic atmospheric boundary layer

C. Guimbaud, A.M. Grannas, P.B. Shepson, J.D. Fuentes, H. Boudries, J.W. Bottenheim, F. Dominé, S. Houdier, S. Perrier, T.B. Biesenthal and B.G. Splawn	2743	Snowpack processing of acetaldehyde and acetone in the Arctic atmospheric boundary layer
F. Dominé, A. Cabanes and L. Legagneux	2753	Structure, microphysics, and surface area of the Arctic snowpack near Alert during the ALERT 2000 campaign
A. Cabanes, L. Legagneux and F. Dominé	2767	Evolution of the specific surface area and of crystal morphology of Arctic fresh snow during the ALERT 2000 campaign
M.R. Albert, A.M. Grannas, J. Bottenheim, P.B. Shepson and F.E. Perron	2779	Processes and properties of snow-air transfer in the high Arctic with application to interstitial ozone at Alert, Canada
M.R. Albert and E.F. Shultz	2789	Snow and firn properties and air-snow transport processes at Summit, Greenland
List of Forthcoming Papers	I	

Number 17

Atmospheric Environment International Issue: Western Europe, Eastern Europe and Asia

Western Europe

R.G. Derwent, D.B. Ryall, A.J. Manning, P.G. Simmonds, S. O'Doherty, S. Biraud, P. Ciais, M. Ramonet and S.G. Jennings	2799	Continuous observations of carbon dioxide at Mace Head, Ireland from 1995 to 1999 and its net European ecosystem exchange
L.R. Soriano and F. de Pablo	2809	Effect of small urban areas in central Spain on the enhancement of cloud-to-ground lightning activity
J. Kuebler, A.G. Russell, A. Hakami, A. Clappier and H. van den Bergh	2817	Episode selection for ozone modelling and control strategies analysis on the Swiss Plateau
V. Gros, P. Jöckel, C.A.M. Brenninkmeijer, T. Röckmann, F. Meinhardt and R. Graul	2831	Characterization of pollution events observed at Schauinsland, Germany, using CO and its stable isotopes
S. Brönnimann, B. Buchmann and H. Wanner	2841	Trends in near-surface ozone concentrations in Switzerland: the 1990s
M. Del Guasta	2853	Daily cycles in urban aerosols observed in Florence (Italy) by means of an automatic 532–1064 nm LIDAR
J.G. Irwin, G. Campbell and K. Vincent	2867	Trends in sulphate and nitrate wet deposition over the United Kingdom: 1986–1999
A. Avila and F. Rodà	2881	Assessing decadal changes in rainwater alkalinity at a rural Mediterranean site in the Montseny Mountains (NE Spain)
D. Ollivon, H. Blanchoud, A. Motelay-Massei and B. Garban	2891	Atmospheric deposition of PAHs to an urban site, Paris, France

Short communication

I. Lowles, R. Hill, V. Auld, H. Stewart and C. Colhoun	2901	Monitoring the pollution from a pyre used to destroy animal carcasses during the outbreak of Foot and Mouth Disease in Cumbria, United Kingdom
---	------	--

Eastern Europe

B. Zabiegała, T. Górecki, E. Przyk and J. Namieśnik	2907	Permeation passive sampling as a tool for the evaluation of indoor air quality
--	------	--

Asia

S.S. Park, Y.J. Kim and C.H. Kang	2917	Atmospheric polycyclic aromatic hydrocarbons in Seoul, Korea
-----------------------------------	------	--

Short communication

P. Goyal and Sidhartha

2925 Effect of winds on SO₂ and SPM concentrations in Delhi*New Directions*

J. Colls

2931 New Directions: Visual range—an under-utilised metric for European air quality

List of Forthcoming Papers

I

Number 18R. Venkatesan, R. Mathiyarasu and
K.M. Somayaji

2933 A study of atmospheric dispersion of radionuclides at a coastal site using a modified Gaussian model and a mesoscale sea breeze model

D. Oetl, P.J. Sturm, M. Bacher, G. Pretterhofer
and R.A. Almbauer

2943 A simple model for the dispersion of pollutants from a road tunnel portal

S.L. Cook and P.J. Richards

2955 An approach towards risk assessment for the use of a synergistic metallic diesel particulate filter (DPF) regeneration additive

L.W.A. van Hove, P. Heeres and M.E. Bossen

2965 The annual variation in stomatal ammonia compensation point of rye grass (*Lolium perenne* L.) leaves in an intensively managed grassland

A. Kiendler and F. Arnold

2979 First composition measurements of positive chemiions in aircraft jet engine exhaust: detection of numerous ion species containing organic compounds

M. Shimmo, H. Adler, T. Hyötyläinen,
K. Hartonen, M. Kulmala and M.-L. Riekkola

2985 Analysis of particulate polycyclic aromatic hydrocarbons by on-line coupled supercritical fluid extraction-liquid chromatography-gas chromatography-mass spectrometry

X.-M. Cai and A.K. Luhar

2997 Fumigation of pollutants in and above the entrainment zone into a growing convective boundary layer: a large-eddy simulation

C.Y.M. dos Santos, D. de Almeida Azevedo
and F.R. de Aquino Neto

3009 Selected organic compounds from biomass burning found in the atmospheric particulate matter over sugarcane plantation areas

D.C. Carslaw and S.D. Beevers

3021 Dispersion modelling considerations for transient emissions from elevated point sources

A. Kousa, L. Oglesby, K. Koistinen, N. Künzli
and M. Jantunen3031 Exposure chain of urban air PM_{2.5}—associations between ambient fixed site, residential outdoor, indoor, workplace and personal exposures in four European cities in the *EXPOLIS*-studyJ.-L. Wang, W.-L. Chen, G.-R. Her
and C.-C. Chan3041 Validation of ozone precursor measurement through inter-comparison with NO_x and CO measurement*Technical note*

S. Du

3049 On the inter-dependency between lateral diffusion and vertical diffusion in the atmospheric surface layer

Discussion

P.S. Porter, S.T. Rao and C. Hogrefe

3055 Linear trend analysis: a comparison of methods

Announcement

K.M. Thiessen

3057 Data sets available for testing environmental transport models

List of Forthcoming Papers

I

Number 19

Atmospheric Environment International Issue: Western Europe

Western Europe

- | | | |
|--|------|--|
| S. Syri, N. Karvosenoja, A. Lehtilä, T. Laurila, V. Lindfors and J.-P. Tuovinen | 3059 | Modeling the impacts of the Finnish Climate Strategy on air pollution |
| M. Ragosta, R. Caggiano, M. D'Emilio and M. Macchiato | 3071 | Source origin and parameters influencing levels of heavy metals in TSP, in an industrial background area of Southern Italy |
| S. Glavas and N. Moschonas | 3089 | Origin of observed acidic-alkaline rains in a wet-only precipitation study in a Mediterranean coastal site, Patras, Greece |
| S. Rodríguez, X. Querol, A. Alastuey and E. Mantilla | 3101 | Origin of high summer PM ₁₀ and TSP concentrations at rural sites in Eastern Spain |
| X. Querol, A. Alastuey, J. de la Rosa, A. Sánchez-de-la-Campa, F. Plana and C.R. Ruiz | 3113 | Source apportionment analysis of atmospheric particulates in an industrialised urban site in southwestern Spain |
| V. Gros, K. Tsigaridis, B. Bonsang, M. Kanakidou and C. Pio | 3127 | Factors controlling the diurnal variation of CO above a forested area in southeast Europe |
| K. Tsigaridis and M. Kanakidou | 3137 | Importance of volatile organic compounds photochemistry over a forested area in central Greece |
| S.M. Owen, P. Harley, A. Guenther and C.N. Hewitt | 3147 | Light dependency of VOC emissions from selected Mediterranean plant species |
| M. Doyle and S. Dorling | 3161 | Visibility trends in the UK 1950–1997 |
| P.S. Koronakis, G.K. Sfantos, A.G. Paliatsos, J.K. Kaldellis, J.E. Garofalakis and I.P. Koronaki | 3173 | Interrelations of UV-global/global/diffuse solar irradiance components and UV-global attenuation on air pollution episode days in Athens, Greece |
| J. Viidanoja, M. Sillanpää, J. Laakia, V.-M. Kerminen, R. Hillamo, P. Aarnio and T. Koskentalo | 3183 | Organic and black carbon in PM _{2.5} and PM ₁₀ : 1 year of data from an urban site in Helsinki, Finland |
| M. Possanzini, V.D. Palo and A. Cecinato | 3195 | Sources and photodecomposition of formaldehyde and acetaldehyde in Rome ambient air |
| N. Nelson, K.P. Kitchen and R. Maryon | 3203 | Assessment of routine atmospheric discharges from the Sellafield nuclear installation—Cumbria UK |
| List of Forthcoming Papers | I | |

Number 20

- | | | |
|--|------|---|
| J.R. Hopkins, I.D. Jones, A.C. Lewis, J.B. McQuaid and P.W. Seakins | 3217 | Non-methane hydrocarbons in the Arctic boundary layer |
| J. Albaladejo, B. Ballesteros, E. Jiménez, P. Martín and E. Martínez | 3231 | A PLP-LIF kinetic study of the atmospheric reactivity of a series of C ₄ –C ₇ saturated and unsaturated aliphatic aldehydes with OH |
| M.S. Gustin, H. Biester and C.S. Kim | 3241 | Investigation of the light-enhanced emission of mercury from naturally enriched substrates |
| J.L. Adgate, G. Ramachandran, G.C. Pratt, L.A. Waller and K. Sexton | 3255 | Spatial and temporal variability in outdoor, indoor, and personal PM _{2.5} exposure |

U.M. Shahin, T.M. Holsen and M. Odabasi	3267	Dry deposition measured with a water surface sampler: a comparison to modeled results
L.W. Tarnay, A. Gertler and G.E. Taylor Jr.	3277	The use of inferential models for estimating nitric acid vapor deposition to semi-arid coniferous forests
N. Poor, T. Clark, L. Nye, T. Tamanini, K. Tate, R. Stevens and T. Atkeson	3289	Field performance of dichotomous sequential PM air samplers
J. Fick, L. Pommer, B. Andersson and C. Nilsson	3299	A study of the gas-phase ozonolysis of terpenes: the impact of radicals formed during the reaction
H.T. Sogaard, S.G. Sommer, N.J. Hutchings, J.F.M. Huijsmans, D.W. Bussink and F. Nicholson	3309	Ammonia volatilization from field-applied animal slurry—the ALFAM model
W. Vizuite, V. Junquera, E. McDonald-Buller, G. McGaughey, G. Yarwood and D. Allen	3321	Effects of temperature and land use on predictions of biogenic emissions in Eastern Texas, USA
A. Sturman and P. Zawar-Reza	3339	Application of back-trajectory techniques to the delimitation of urban clean air zones
List of Forthcoming Papers	I	

Number 21

Atmospheric Environment International Issue: Asia and Australasia

Asia

S. Kang, P.A. Mayewski, D. Qin, Y. Yan, S. Hou, D. Zhang, J. Ren and K. Kruezt	3351	Glaciochemical records from a Mt. Everest ice core: relationship to atmospheric circulation over Asia
L.Y. Chan, W.L. Lau, S.C. Lee and C.Y. Chan	3363	Commuter exposure to particulate matter in public transportation modes in Hong Kong
H.A. Bridgman, T.D. Davies, T. Jickells, I. Hunova, K. Tovey, K. Bridges and V. Surapipith	3375	Air pollution in the Krusne Hory region, Czech Republic during the 1990s
A. Tani, S. Nozoe, M. Aoki and C.N. Hewitt	3391	Monoterpene fluxes measured above a Japanese red pine forest at Oshiba plateau, Japan
K.-L. Yang	3403	Spatial and seasonal variation of PM ₁₀ mass concentrations in Taiwan
K.-H. Kim, M.-Y. Kim, J. Kim and G. Lee	3413	The concentrations and fluxes of total gaseous mercury in a western coastal area of Korea during late March 2001
B. Barletta, S. Meinardi, I.J. Simpson, H.A. Khwaja, D.R. Blake and F.S. Rowland	3429	Mixing ratios of volatile organic compounds (VOCs) in the atmosphere of Karachi, Pakistan
W.-L. Cheng	3445	Ozone distribution in coastal central Taiwan under sea-breeze conditions
N. Manju, R. Balakrishnan and N. Mani	3461	Assimilative capacity and pollutant dispersion studies for the industrial zone of Manali
P.D. Hien, V.T. Bac, H.C. Tham, D.D. Nhan and L.D. Vinh	3473	Influence of meteorological conditions on PM _{2.5} and PM _{2.5-10} concentrations during the monsoon season in Hanoi, Vietnam
Y.-M. Hong, B.-K. Lee, K.-J. Park, M.-H. Kang, Y.-R. Jung, D.-S. Lee and M.-G. Kim	3485	Atmospheric nitrogen and sulfur containing compounds for three sites of South Korea

- | | | |
|--|------|--|
| S.T. Leong, S. Muttamara and P. Laortanakul | 3495 | Applicability of gasoline containing ethanol as Thailand's alternative fuel to curb toxic VOC pollutants from automobile emission |
| S. Seto, A. Nakamura, I. Noguchi, T. Ohizumi, N. Fukuzaki, S. Toyama, M. Maeda, K. Hayashi and H. Hara | 3505 | Annual and seasonal trends in chemical composition of precipitation in Japan during 1989–1998 |
| Australasia | | |
| H. Wang and D. Shooter | 3519 | Coarse-fine and day-night differences of water-soluble ions in atmospheric aerosols collected in Christchurch and Auckland, New Zealand |
| M.G. Barna and N.R. Gimson | 3531 | Dispersion modelling of a wintertime particulate pollution episode in Christchurch, New Zealand |
| L. Morawska, D. Vishvakarman, K. Mengersen and S. Thomas | 3545 | Spatial variation of airborne pollutant concentrations in Brisbane, Australia and its potential impact on population exposure assessment |
| R.J. Kieber, B. Peake, J.D. Willey and G.B. Avery | 3557 | Dissolved organic carbon and organic acids in coastal New Zealand rainwater |
| List of Forthcoming Papers | I | |

Number 22

- | | | |
|--|------|---|
| R. Treffeisen, K. Grunow, D. Möller and A. Hainsch | 3565 | Quantification of source region influences on the ozone burden |
| D. Voutsas and C. Samara | 3583 | Labile and bioaccessible fractions of heavy metals in the airborne particulate matter from urban and industrial areas |
| A. Feilberg, T. Ohura, T. Nielsen, M.W.B. Poulsen and T. Amagai | 3591 | Occurrence and photostability of 3-nitrobenzanthrone associated with atmospheric particles |
| A. Walton, A.Y.S. Cheng and W.C. Yeung | 3601 | Large-eddy simulation of pollution dispersion in an urban street canyon—Part I: comparison with field data |
| A. Walton and A.Y.S. Cheng | 3615 | Large-eddy simulation of pollution dispersion in an urban street canyon—Part II: idealised canyon simulation |
| S.L. Miller, M.J. Anderson, E.P. Daly and J.B. Milford | 3629 | Source apportionment of exposures to volatile organic compounds. I. Evaluation of receptor models using simulated exposure data |
| M.J. Anderson, E.P. Daly, S.L. Miller and J.B. Milford | 3643 | Source apportionment of exposures to volatile organic compounds: II. Application of receptor models to TEAM study data |
| M.D. Webster, M. Babiker, M. Mayer, J.M. Reilly, J. Harnisch, R. Hyman, M.C. Sarofim and C. Wang | 3659 | Uncertainty in emissions projections for climate models |
| W.-H. Chen | 3671 | An analysis of gas absorption by a liquid aerosol in a stationary environment |
| R.I. Olariu, B. Klotz, I. Barnes, K.H. Becker and R. Mocanu | 3685 | FT-IR study of the ring-retaining products from the reaction of OH radicals with phenol, <i>o</i> -, <i>m</i> -, and <i>p</i> -cresol |
| O. Fatogoma and R.B. Jacko | 3699 | A model to estimate mixing height and its effects on ozone modeling |

P. Kastner-Klein and E. Fedorovich	3709	Diffusion from a line source deployed in a homogeneous roughness layer: interpretation of wind-tunnel measurements by means of simple mathematical models
<i>Discussion</i>		
A. Hess, H. Iyer and W. Malm	3719	Authors' reply to Linear trend analysis: a comparison of methods [Atmospheric Environment 36 (2002) 3055–3056]
List of Forthcoming papers	I	

Number 23

Atmospheric Environment International Issue: North America, Central and South America and Antarctica

North America

J.W. Boylan, M.T. Odman, J.G. Wilkinson, A.G. Russell, K.G. Doty, W.B. Norris and R.T. McNider	3721	Development of a comprehensive, multiscale "one-atmosphere" modeling system: application to the Southern Appalachian Mountains
P. Blanchard, F.A. Froude, J.B. Martin, H. Dryfhout-Clark and J.T. Woods	3735	Four years of continuous total gaseous mercury (TGM) measurements at sites in Ontario, Canada
J.J. Carroll and A.J. Dixon	3745	Regional scale transport over complex terrain, a case study: tracing the Sacramento plume in the Sierra Nevada of California
J. Carignan, A. Simonetti and C. Gariépy	3759	Dispersal of atmospheric lead in northeastern North America as recorded by epiphytic lichens
A. Buda and D.R. DeWalle	3767	Potential effects of changes in precipitation and temperature on wet deposition in central Pennsylvania
A. Dennis, M. Fraser, S. Anderson and D. Allen	3779	Air pollutant emissions associated with forest, grassland, and agricultural burning in Texas

Central and South America

C. Geron, A. Guenther, J. Greenberg, H.W. Loescher, D. Clark and B. Baker	3793	Biogenic volatile organic compound emissions from a low-land tropical wet forest in Costa Rica
L. Gidhagen, H. Kahelin, P. Schmidt-Thomé and C. Johansson	3803	Anthropogenic and natural levels of arsenic in PM ₁₀ in Central and Northern Chile
G. Olivares, L. Gallardo, J. Langner and B. Aarhus	3819	Regional dispersion of oxidized sulfur in Central Chile
L. Gallardo, G. Olivares, J. Langner and B. Aarhus	3829	Coastal lows and sulfur air pollution in Central Chile
H. Bravo, R. Sosa, P. Sánchez, E. Bueno and L. González	3843	Concentrations of benzene and toluene in the atmosphere of the southwestern area at the Mexico City Metropolitan Zone
M. Tsapakis, E. Lagoudaki, E.G. Stephanou, I.G. Kavouras, P. Koutrakis, P. Oyola and D. von Baer	3851	The composition and sources of PM _{2.5} organic aerosol in two urban areas of Chile

Antarctica

Corrigendum

D.M. Mazzer, D.H. Lowenthal, J.C. Chow, J.G. Watson and V. Grubišić	3865	Corrigendum to "PM ₁₀ measurements at McMurdo Station, Antarctica" [Atmos. Environ. 35(10) 1891–2002]
List of Forthcoming Papers	I	

Number 24

- | | | |
|--|------|--|
| M. Duane, B. Poma, D. Rembges, C. Astorga and B.R. Larsen | 3867 | Isoprene and its degradation products as strong ozone precursors in Insubria, Northern Italy |
| A. Ryaboshapko, R. Bullock, R. Ebinghaus, I. Ilyin, K. Lohman, J. Munthe, G. Petersen, C. Seigneur and I. Wängberg | 3881 | Comparison of mercury chemistry models |
| S. Hasegawa and S. Ohta | 3899 | Some measurements of the mixing state of soot-containing particles at urban and non-urban sites |
| M. Ryhl-Svendsen and J. Glastrup | 3909 | Acetic acid and formic acid concentrations in the museum environment measured by SPME-GC/MS |
| P. Miehe, A. Sandu, G.R. Carmichael, Y. Tang and D. Dăescu | 3917 | A communication library for the parallelization of air quality models on structured grids |
| J. Llusà, J. Peñuelas and B.S. Gimeno | 3931 | Seasonal and species-specific response of VOC emissions by Mediterranean woody plant to elevated ozone concentrations |
| S. Shen, P.A. Jaques, Y. Zhu, M.D. Geller and C. Sioutas | 3939 | Evaluation of the SMPS-APS system as a continuous monitor for measuring PM _{2.5} , PM ₁₀ and coarse (PM _{2.5-10}) concentrations |
| C.S. König and M.R. Mokhtarzadeh-Dehghan | 3951 | Numerical study of buoyant plumes from a multi-flue chimney released into an atmospheric boundary layer |
| K. Wittmaack | 3963 | Impact and growth phenomena observed with sub-micrometer atmospheric aerosol particles collected on polished silicon at low coverage |
| G. Sarwar, R. Corsi, Y. Kimura, D. Allen and C.J. Weschler | 3973 | Hydroxyl radicals in indoor environments |
| T.E. Stoughton and D.R. Miller | 3989 | Vertical dispersion in the nocturnal, stable surface layer above a forest canopy |
| <i>Publishers note</i> | | |
| A. Becker, E. Schaller and K. Keuler | 3999 | Continuous four-dimensional source attribution for the Berlin area during two days in July 1994. Part 1: The new Euler-Lagrange-model system LaMM5 [Atmospheric Environment 35 (32) 5497-5508] |
| <i>Erratum</i> | | |
| A. Becker, E. Schaller and K. Keuler | 4001 | Erratum to "Continuous four-dimensional source attribution for the Berlin area during two days in July 1994. Part I: The new Euler-Lagrange-model system LaMM5" [Atmospheric Environment 35(32) (2001) 5497] |
| List of Forthcoming Papers | I | |

Number 25

Atmospheric Environment International Issue: Western Europe and Eastern Europe

Western Europe

- | | | |
|---|------|---|
| A.F.H. ter Schure and P. Larsson | 4015 | Polybrominated diphenyl ethers in precipitation in Southern Sweden (Skåne, Lund) |
| M. Mandalakis, M. Tsapakis, A. Tsoga and E.G. Stephanou | 4023 | Gas-particle concentrations and distribution of aliphatic hydrocarbons, PAHs, PCBs and PCDD/Fs in the atmosphere of Athens (Greece) |

R.G. Harrison and K.L. Aplin	4037	Mid-nineteenth century smoke concentrations near London
S.E. Metcalfe, J.D. Whyatt, R.G. Derwent and M. O'Donoghue	4045	The regional distribution of ozone across the British Isles and its response to control strategies
P. Tiitta, T. Raunemaa, J. Tissari, T. Yli-Tuomi, A. Leskinen, J. Kukkonen, J. Härkönen and A. Karppinen	4057	Measurements and modelling of PM _{2.5} concentrations near a major road in Kuopio, Finland
R. Gerdol, L. Bragazza, R. Marchesini, A. Medici, P. Pedrini, S. Benedetti, A. Bovolenta and S. Coppi	4069	Use of moss (<i>Tortula muralis</i> Hedw.) for monitoring organic and inorganic air pollution in urban and rural sites in Northern Italy
G. Hoek, K. Meliefste, J. Cyrys, M. Lewné, T. Bellander, M. Brauer, P. Fischer, U. Gehring, J. Heinrich, P. van Vliet and B. Brunekreef	4077	Spatial variability of fine particle concentrations in three European areas
J.R. Stedman	4089	The use of receptor modelling and emission inventory data to explain the downward trend in UK PM ₁₀ concentrations
K. Gysels, F. Deutsch and R.V. Grieken	4103	Characterisation of particulate matter in the Royal Museum of Fine Arts, Antwerp, Belgium
P. Molnár, S. Janhäll and M. Hallquist	4115	Roadside measurements of fine and ultrafine particles at a major road north of Gothenburg
Eastern Europe		
T. Feczkó, A. Molnár, E. Mészáros and G. Major	4125	Regional climate forcing of aerosol estimated by a box model for a rural site in Central Europe during summer
V. Kimmel, H. Tammet and T. Truuts	4133	Variation of atmospheric air pollution under conditions of rapid economic change—Estonia 1994–1999
Á. Havasi and Z. Zlatev	4145	Trends of Hungarian air pollution levels on a long time-scale
Erratum		
L. Brown, B. Syed, S.C. Jarvis, R.W. Sneath, V.R. Phillips, K.W.T. Goulding and C. Li	4157	Erratum to "Development and application of a mechanistic model to estimate emission of nitrous oxide from UK agriculture" [Atmospheric Environment 36 (2002) 917–928]
List of Forthcoming Papers	I	

Number 26

Atmospheric Environment International Issue: Asia, Africa and The Middle East and Australasia

Asia

J. An, H. Ueda, Z. Wang, K. Matsuda, M. Kajino and X. Cheng	4159	Simulations of monthly mean nitrate concentrations in precipitation over East Asia
H.-J. In and S.-U. Park	4173	A simulation of long-range transport of Yellow Sand observed in April 1998 in Korea
X.Y. Zhang, J.J. Cao, L.M. Li, R. Arimoto, Y. Cheng, B. Huebert and D. Wang	4189	Characterization of Atmospheric Aerosol over XiAn in the South Margin of the Loess Plateau, China
T. Sakurai and S.-i. Fujita	4201	Analysis of atmospheric ammonia budget for the Kanto region, Japan
B.-N. Zhang and N.T.K. Oanh	4211	Photochemical smog pollution in the Bangkok Metropolitan Region of Thailand in relation to O ₃ precursor concentrations and meteorological conditions
X. Yao, C.K. Chan, M. Fang, S. Cadle, T. Chan, P. Mulawa, K. He and B. Ye	4223	The water-soluble ionic composition of PM _{2.5} in Shanghai and Beijing, China

P. Pochanart, H. Akimoto, Y. Kinjo
and H. Tanimoto

4235 Surface ozone at four remote island sites and the preliminary
assessment of the exceedances of its critical level in
Japan

T. Holloway, H. Levy II and G. Carmichael

4251 Transfer of reactive nitrogen in Asia: development and
evaluation of a source-receptor model

Africa and The Middle East

L.B. Otter, A. Guenther and J. Greenberg

4265 Seasonal and spatial variations in biogenic hydrocarbon
emissions from southern African savannas and woodlands

Australasia

S. Thomas and L. Morawska

4277 Size-selected particles in an urban atmosphere of Brisbane,
Australia

List of Forthcoming Papers

I

Number 27

Z.-H. Shon and N. Kim

4289 A modeling study of halogen chemistry's role in marine
boundary layer ozone

S.W. Campbell, M.C. Evans and N.D. Poor

4299 Predictions of size-resolved aerosol concentrations of ammo-
nium, chloride and nitrate at a bayside site using EQUI-
SOLV II

D.R. Cobos, J.M. Baker and E.A. Nater

4309 Conditional sampling for measuring mercury vapor fluxes

Y. Zhu, W.C. Hinds, S. Kim, S. Shen
and C. Sioutas

4323 Study of ultrafine particles near a major highway with heavy-
duty diesel traffic

K.S. Rao, R.L. Gunter, J.R. White
and R.P. Hosker

4337 Turbulence and dispersion modeling near highways

S.M. Aschmann, J. Arey and R. Atkinson

4347 OH radical formation from the gas-phase reactions of O₃
with a series of terpenes

K. Chang, C. Lu, H. Bai and G.-C. Fang

4357 A theoretical evaluation on the HNO₃ artifact of the annular
denuder system due to evaporation and diffusional deposi-
tion of NH₄NO₃-containing aerosols

A. Ooki, M. Uematsu, K. Miura
and S. Nakae

4367 Sources of sodium in atmospheric fine particles

L. Morawska, E.R. Jayaratne, K. Mengersen,
M. Jamriska and S. Thomas

4375 Differences in airborne particle and gaseous concentrations
in urban air between weekdays and weekends

C.-Y. Huang, C.-C. Lee, F.-C. Li, Y.-P. Ma
and H.-J.J. Su

4385 The seasonal distribution of bioaerosols in municipal landfill
sites: a 3-yr study

A.R. Webb, R. Kift, S. Thiel and M. Blumthaler

4397 An empirical method for the conversion of spectral UV
irradiance measurements to actinic flux data

T.P. Schopflocher and P.J. Sullivan

4405 A mixture model for the PDF of a diffusing scalar in a
turbulent flow

Publishers note

4419

Discussion

P.S. Porter and S.T. Rao

4420 Linear trend analysis: a comparison of methods

A. Hess, H. Iyer
and W. Malm

4422 Author's reply

List of Forthcoming Papers

I

Number 28

Atmospheric Environment International Issue: Western Europe, North America and Central and South America

Western Europe

- A.L. Redington and R.G. Derwent 4425 Calculation of sulphate and nitrate aerosol concentrations over Europe using a Lagrangian dispersion model
- L. Núñez, J. Plaza, R. Pérez-Pastor, M. Pujadas, B.S. Gimeno, V. Bermejo and S. García-Alonso 4441 High water vapour pressure deficit influence on *Quercus ilex* and *Pinus pinea* field monoterpene emission in the central Iberian Peninsula (Spain)
- D. Voutsas, C. Samara, Th. Kouimtzis and K. Ochsenkühn 4453 Elemental composition of airborne particulate matter in the multi-impacted urban area of Thessaloniki, Greece
- J.F. Slater, L.A. Currie, J.E. Dibb and B.A. Benner Jr. 4463 Distinguishing the relative contribution of fossil fuel and biomass combustion aerosols deposited at Summit, Greenland through isotopic and molecular characterization of insoluble carbon
- S. Kleefeld, A. Hoffer, Z. Krivácsy and S.G. Jennings 4479 Importance of organic and black carbon in atmospheric aerosols at Mace Head, on the West Coast of Ireland (53°19'N, 9°54'W)
- P. Tulet, K. Suhre, C. Mari, F. Solmon and R. Rosset 4491 Mixing of boundary layer and upper tropospheric ozone during a deep convective event over Western Europe

North America

- M.R. Kurpius, M. McKay and A.H. Goldstein 4503 Annual ozone deposition to a Sierra Nevada ponderosa pine plantation
- Y. Luo, X. Yang, R.J. Carley and C. Perkins 4517 Atmospheric deposition of nitrogen along the Connecticut coastline of Long Island Sound: a decade of measurements
- W.C. Keene, J.A. Montag, J.R. Maben, M. Southwell, J. Leonard, T.M. Church, J.L. Moody and J.N. Galloway 4529 Organic nitrogen in precipitation over Eastern North America
- L.-W. Antony Chen, B.G. Doddridge, R.R. Dickerson, J.C. Chow and R.C. Henry 4541 Origins of fine aerosol mass in the Baltimore–Washington corridor: implications from observation, factor analysis, and ensemble air parcel back trajectories

Central and South America

- P. Perez and J. Reyes 4555 Prediction of maximum of 24-h average of PM10 concentrations 30 h in advance in Santiago, Chile

Discussion

- B.R.T. Simoneit 4563 Chemical characterization of sub-micron organic aerosols in the tropical trade winds of the Caribbean using gas chromatography—mass spectrometry

List of Forthcoming Papers

I

Number 29

Regular papers

- I. Mori, M. Nishikawa, H. Quan and M. Morita 4569 Estimation of the concentration and chemical composition of kosa aerosols at their origin
- T. Stathopoulos, L. Lazure, P. Saathoff and X. Wei 4577 Dilution of exhaust from a rooftop stack on a cubical building in an urban environment

- | | | |
|---|------|---|
| T. Rotko, L. Oglesby, N. Künzli, P. Carrer, M.J. Nieuwenhuijsen and M. Jantunen | 4593 | Determinants of perceived air pollution annoyance and association between annoyance scores and air pollution (PM _{2.5} , NO ₂) concentrations in the European <i>EXPOLIS</i> study |
| R.W. Macdonald, R.K. Strom and P.R. Slawson | 4603 | Water flume study of the enhancement of buoyant rise in pairs of merging plumes |
| A. Feilberg, T. Nielsen, M.-L. Binderup, H. Skov and M.W.B. Poulsen | 4617 | Observations of the effect of atmospheric processes on the genotoxic potency of airborne particulate matter |
| H. Bardouki, M.B. da Rosa, N. Mihalopoulos, W.-U. Palm and C. Zetzsch | 4627 | Kinetics and mechanism of the oxidation of dimethylsulfoxide (DMSO) and methanesulfinic acid (MSI ⁻) by OH radicals in aqueous medium |
| A. Stohl, S. Eckhardt, C. Forster, P. James, N. Spichtinger and P. Seibert | 4635 | A replacement for simple back trajectory calculations in the interpretation of atmospheric trace substance measurements |
| D.P. Chock, S.L. Winkler and P. Sun | 4649 | Effect of grid resolution and subgrid assumptions on the model prediction of a reactive buoyant plume under convective conditions |
| M.J. Harvey, G.W. Brailsford, A.M. Bromley, K.R. Lassey, Z. Mei, I.S. Kristament, A.R. Reisinger, C.F. Walker and F.M. Kelliher | 4663 | Boundary-layer isotope dilution/mass balance methods for measurement of nocturnal methane emissions from grazing sheep |
| J. Kesselmeier and A. Hubert | 4679 | Exchange of reduced volatile sulfur compounds between leaf litter and the atmosphere |
| J.E. Sickles II and D.S. Shadwick | 4687 | Biases in Clean Air Status and Trends Network filter pack results associated with sampling protocol |
| <i>Short communication</i> | | |
| J. Li, A.J. Khan and L. Husain | 4699 | A technique for determination of black carbon in cellulose filters |
| <i>New Directions</i> | | |
| P. Crosignani, A. Borgini, E. Cadum, D. Mirabelli and E. Porro | 4705 | New directions: air pollution—how many victims? |
| List of Forthcoming Papers | I | |

Number 30

- | | | |
|--|------|---|
| M. Cassiani and U. Giostra | 4707 | A semi-analytical model for mean concentration in a convective boundary layer |
| M. Cassiani and U. Giostra | 4717 | A simple and fast model to compute concentration moments in a convective boundary layer |
| M.E. Jenkin, S.M. Saunders, R.G. Derwent and M.J. Pilling | 4725 | Development of a reduced speciated VOC degradation mechanism for use in ozone models |
| J. Sternbeck, Å. Sjödin and K. Andréasson | 4735 | Metal emissions from road traffic and the influence of resuspension—results from two tunnel studies |
| N.V. Heeb, A.-M. Forss and M. Weilenmann | 4745 | Pre- and post-catalyst-, fuel-, velocity- and acceleration-dependent benzene emission data of gasoline-driven EURO-2 passenger cars and light duty vehicles |
| K. Sada | 4757 | Wind tunnel experiment of tracer gas diffusion within unstable boundary layer over coastal region |
| S. Friedfeld, M. Fraser, K. Ensor, S. Tribble, D. Rehle, D. Leleux and F. Tittel | 4767 | Statistical analysis of primary and secondary atmospheric formaldehyde |

M.M. Kulkarni and R.S. Patil	4777	An empirical model to predict indoor NO ₂ concentrations
L. Zhang, J.R. Brook and R. Vet	4787	On ozone dry deposition—with emphasis on non-stomatal uptake and wet canopies
M. Reck, P.S. Larsen and U. Ullum	4801	Particle deposition in low-speed, high-turbulence flows
M. Schatzmann and B. Leidl	4811	Validation and application of obstacle-resolving urban dispersion models
E. Hedberg, A. Kristensson, M. Ohlsson, C. Johansson, P.-Å. Johansson, E. Swietlicki, V. Vesely, U. Wideqvist and R. Westerholm	4823	Chemical and physical characterization of emissions from birch wood combustion in a wood stove
H.-P. Neukom, K. Grob, M. Biedermann and A. Noti	4839	Food contamination by C ₂₀ –C ₅₀ mineral paraffins from the atmosphere
<i>New Directions</i>		
S.D. Beevers and D.C. Carslaw	4849	New Directions: Use of vehicle position information provides a novel tool for emissions inventory development
List of Forthcoming Papers	I	

Number 31

Atmospheric Environment International Issue: Asia, Australasia and Antarctica

Asia

H. Park, S. Chah, E. Choi, H. Kim and J. Yi	4851	Releases and transfers from petroleum and chemical manufacturing industries in Korea
J. Xuan and I.N. Sokolik	4863	Characterization of sources and emission rates of mineral dust in Northern China
S.-U. Park and H.-J. In	4877	Simulation of long-range transport of acidic pollutants in East Asia during the Yellow Sand event
A. Steiner, C. Luo, Y. Huang and W.L. Chameides	4895	Past and present-day biogenic volatile organic compound emissions in East Asia
Y. Wu, J. Hao, L. Fu, Z. Wang and U. Tang	4907	Vertical and horizontal profiles of airborne particulate matter near major roads in Macao, China
K.-H. Kim and M.-Y. Kim	4919	Mercury emissions as landfill gas from a large-scale abandoned landfill site in Seoul
Y. Kanaya, K. Nakamura, S. Kato, J. Matsumoto, H. Tanimoto and H. Akimoto	4929	Nighttime variations in HO ₂ radical mixing ratios at Rishiri Island observed with elevated monoterpene mixing ratios
J. Fengqing, Z. Cheng, W. Wenshou and O. Abe	4941	Some results of snow chemical surveys in the Kunlun River valley, East Tianshan mountains, China
S.-U. Park, Y.-H. Lee and E.-H. Lee	4951	Estimation of nitrogen dry deposition in South Korea

Australasia

Y.-P. Wang and S.T. Bentley	4965	Development of a spatially explicit inventory of methane emissions from Australia and its verification using atmospheric concentration data
-----------------------------	------	---

Antarctica

Short communication

L. Sun, R. Zhu, Z. Xie and G. Xing	4977	Emissions of nitrous oxide and methane from Antarctic Tundra: role of penguin dropping deposition
------------------------------------	------	---

Publisher's note

4989 Publisher's note

List of Forthcoming Papers

I

Number 32

*Fast Track paper*Y. Yokouchi, D. Toom-Sauntry, K. Yazawa,
T. Inagaki and T. Tamaru

4985 Recent decline of methyl bromide in the troposphere

*Regular papers*S. Chang, E. McDonald-Buller, Y. Kimura,
G. Yarwood, J. Neece, M. Russell, P. Tanaka
and D. Allen4991 Sensitivity of urban ozone formation to chlorine emission
estimatesM.T. Scholtz, E. Voldner, A.C. McMillan
and B.J. Van Heyst5005 A pesticide emission model (PEM) Part I: model develop-
mentM.T. Scholtz, E. Voldner, B.J. Van Heyst,
A.C. McMillan and E. Pattey

5015 A pesticide emission model (PEM) Part II: model evaluation

T. Cheng, Y. Jiang, Y. Xu and Y. Zhang

5025 Mathematical model for simulation of VOC emissions and
concentrations in buildings

H.N. Webster and D.J. Thomson

5031 Validation of a Lagrangian model plume rise scheme using
the Kincaid data setJ.L. Hand, S.M. Kreidenweis, D. Eli Sherman,
J.L. Collett Jr., S.V. Hering, D.E. Day
and W.C. Malm5043 Aerosol size distributions and visibility estimates during the
Big Bend regional aerosol and visibility observational
(BRAVO) studyJ.-I. Yoo, K.-H. Kim, H.-N. Jang, Y.-C. Seo,
K.-S. Seok, J.-H. Hong and M. Jang5057 Emission characteristics of particulate matter and heavy
metals from small incinerators and boilersS.R. Hanna, S. Tehranian, B. Carissimo,
R.W. Macdonald and R. Lohner5067 Comparisons of model simulations with observations of
mean flow and turbulence within simple obstacle arraysO. Duclaux, E. Frejafon, H. Schmidt,
A. Thomasson, D. Mondelain, J. Yu,
C. Guillaumond, C. Puel, F. Savoie, P. Ritter,
J.P. Boch and J.P. Wolf

5081 3D-air quality model evaluation using the Lidar technique

A. Andracchio, C. Cavicchi, D. Tonelli
and S. Zappoli5097 A new approach for the fractionation of water-soluble
organic carbon in atmospheric aerosols and cloud dropsJ.-E. Oh, Y.-S. Chang, E.-J. Kim
and D.-W. Lee5109 Distribution of polychlorinated dibenzo-*p*-dioxins and diben-
zofurans (PCDD/Fs) in different sizes of airborne particles*Research announcement*

R.A. Duce and P.S. Liss

5119 The surface ocean—lower atmosphere study (SOLAS)

List of Forthcoming Papers

I

Number 33

Atmospheric Environment International Issue: Asia, North America and Central and South America**Asia**

H.-Y. Xiao and C.-Q. Liu

5121 Sources of nitrogen and sulfur in wet deposition at Guiyang,
southwest China

E. Baboukas, J. Sciare and N. Mihalopoulos

5131 Interannual variability of methanesulfonate in rainwater at
Amsterdam Island (Southern Indian Ocean)

X.-M. Wang, G.-Y. Sheng, J.-M. Fu, C.-Y. Chan, S.-C. Lee, L.Y. Chan and Z.-S. Wang	5141	Urban roadside aromatic hydrocarbons in three cities of the Pearl River Delta, People's Republic of China
W. Ding, Z. Cai, H. Tsuruta and X. Li	5149	Effect of standing water depth on methane emissions from freshwater marshes in northeast China
S. Kanayama, S. Yabuki, F. Yanagisawa and R. Motoyama	5159	The chemical and strontium isotope composition of atmospheric aerosols over Japan: the contribution of long-range-transported Asian dust (Kosa)
North America		
S.S. Pokharel, G.A. Bishop and D.H. Stedman	5177	An on-road motor vehicle emissions inventory for Denver: an efficient alternative to modeling
S.F. Maria, L.M. Russell, B.J. Turpin and R.J. Porcja	5185	FTIR measurements of functional groups and organic mass in aerosol samples over the Caribbean
A.B. Gilliland, T.J. Butler and G.E. Likens	5197	Monthly and annual bias in weekly (NADP/NTN) versus daily (AIRMoN) precipitation chemistry data in the Eastern USA
S.E. Lindberg, W. Dong and T. Meyers	5207	Transpiration of gaseous elemental mercury through vegetation in a subtropical wetland in Florida
J.F. Karlik, A.H. McKay, J.M. Welch and A.M. Winer	5221	A survey of California plant species with a portable VOC analyzer for biogenic emission inventory development
Central and South America		
A.A. Piña, G.T. Villaseñor, P.S. Jacinto and M.M. Fernández	5235	Scanning and transmission electron microscope of suspended lead-rich particles in the air of San Luis Potosi, Mexico
F.L.T. Goncalves, A.M. Ramos, S. Freitas, M.A.S. Dias and O. Massambani	5245	In-cloud and below-cloud numerical simulation of scavenging processes at Serra Do Mar region, SE Brazil
<i>Publishers note</i>	5257	
<i>Discussion</i>		
B.R.T. Simoneit	5259	Erratum to Chemical characterization of sub-micron organic aerosols in the tropical trade winds of the Caribbean using gas chromatography—mass spectrometry
O. Rosario and O. Mayol-Bracero	5265	Author's response
List of Forthcoming Papers	I	

Number 34

Atmospheric Environment International Issue: Western Europe

R. Ebinghaus, H.H. Kock, A.M. Coggins, T.G. Spain, S.G. Jennings and Ch. Temme	5267	Long-term measurements of atmospheric mercury at Mace Head, Irish west coast, between 1995 and 2001
R.M. Peña, S. García, C. Herrero, M. Losada, A. Vázquez and T. Lucas	5277	Organic acids and aldehydes in rainwater in a northwest region of Spain
E. Galán, I. González and B. Fabbri	5289	Estimation of fluorine and chlorine emissions from Spanish structural ceramic industries. The case study of the Bailén area, Southern Spain
A. Ianniello, H.J. Beine, R. Sparapani, F. Di Bari, I. Allegrini and J.D. Fuentes	5299	Denuder measurements of gas and aerosol species above Arctic snow surfaces at Alert 2000
J.H. Sartin, C.J. Halsall, S. Hayward and C.N. Hewitt	5311	Emission rates of C ₈ –C ₁₅ VOCs from seaweed and sand in the inter-tidal zone at Mace Head, Ireland

- | | | |
|--|------|---|
| M. Palacios, F. Kirchner, A. Martilli,
A. Clappier, F. Martín and M.E. Rodríguez | 5323 | Summer ozone episodes in the Greater Madrid area. Analyzing the ozone response to abatement strategies by modelling |
| H.S. Adams, M.J. Nieuwenhuijsen,
R.N. Colville, M.J. Older and M. Kendall | 5335 | Assessment of road users' elemental carbon personal exposure levels, London, UK |
| C.M. Buchanan, I.J. Beverland and M.R. Heal | 5343 | The influence of weather-type and long-range transport on airborne particle concentrations in Edinburgh, UK |
| K.A. Kourtidis, I. Ziomas, C. Zerefos,
E. Kosmidis, P. Symeonidis,
E. Christophilopoulos, S. Karathanassis
and A. Mploutsos | 5355 | Benzene, toluene, ozone, NO ₂ and SO ₂ measurements in an urban street canyon in Thessaloniki, Greece |
| E. Drab, A. Gaudichet, J.L. Jaffrezo
and J.L. Colin | 5365 | Mineral particles content in recent snow at Summit (Greenland) |
| S. Saija and D. Romano | 5377 | A methodology for the estimation of road transport air emissions in urban areas of Italy |
| C. Perrino, M. Catrambone,
A. Di Menno Di Bucchianico and I. Allegrini | 5385 | Gaseous ammonia in the urban area of Rome, Italy and its relationship with traffic emissions |
| B. Garban, H. Blanchoud, A. Motelay-Massei,
M. Chevreuil and D. Ollivon | 5395 | Atmospheric bulk deposition of PAHs onto France: trends from urban to remote sites |
| M. Alessio, S. Anselmi, L. Conforto, S. Improta,
F. Manes and L. Manfra | 5405 | Radiocarbon as a biomarker of urban pollution in leaves of evergreen species sampled in Rome and in rural areas (Lazio—Central Italy) |
| List of Forthcoming Papers | I | |

Number 35

Special issue

12th World Clean Air & Environment Congress [26–31 August 2001, Seoul, Korea]

- | | | |
|---|------|--|
| H.M. ApSimon, R.F. Warren and S. Kayin | 5417 | Addressing uncertainty in environmental modelling: a case study of integrated assessment of strategies to combat long-range transboundary air pollution |
| S.-B. Lee, G.-N. Bae, K.-C. Moon and Y.P. Kim | 5427 | Characteristics of TSP and PM _{2.5} measured at Tokchok Island in the Yellow Sea |
| H.-G. Yeo and J.-H. Kim | 5437 | SPM and fungal spores in the ambient air of west Korea during the Asian dust (Yellow sand) period |
| N. Hamada and T. Fujita | 5443 | Effect of air-conditioner on fungal contamination |
| H.-J. Yun, S.-M. Yi and Y.P. Kim | 5449 | Dry deposition fluxes of ambient particulate heavy metals in a small city, Korea |
| S.H. Park and K.W. Lee | 5459 | Analytical solution to change in size distribution of polydisperse particles in closed chamber due to diffusion and sedimentation |
| K. Osada, M. Kido, C. Nishita, K. Matsunaga,
Y. Iwasaka, M. Nagatani and H. Nakada | 5469 | Changes in ionic constituents of free tropospheric aerosol particles obtained at Mt. Norikura (2770 m a.s.l.), central Japan, during the Shurin period in 2000 |
| T. Sakai, T. Shibata, Y. Iwasaka, T. Nagai,
M. Nakazato, T. Matsumura, A. Ichiki,
Y.-S. Kim, K. Tamura, D. Troshkin
and S. Hamdi | 5479 | Case study of Raman lidar measurements of Asian dust events in 2000 and 2001 at Nagoya and Tsukuba, Japan |

S.Y. Bae, S.M. Yi and Y.P. Kim	5491	Temporal and spatial variations of the particle size distribution of PAHs and their dry deposition fluxes in Korea
J.W. van Groenestijn and J.X. Liu	5501	Removal of alpha-pinene from gases using biofilters containing fungi
C.-M. Kang, J.-S. Han and Y. Sunwoo	5509	Hydrogen peroxide concentrations in the ambient air of Seoul, Korea
S. Ferrarese, A. Longhetto, C. Cassardo, F. Apadula, D. Bertoni, C. Giraud and A. Gotti	5517	A study of seasonal and yearly modulation of carbon dioxide sources and sinks, with a particular attention to the Boreal Atlantic Ocean
K. Sada and A. Sato	5527	Numerical calculation of flow and stack-gas concentration fluctuation around a cubical building
K. Hayakawa, N. Tang, K. Akutsu, T. Murahashi, H. Kakimoto, R. Kizu and A. Toriba	5535	Comparison of polycyclic aromatic hydrocarbons and nitropolycyclic aromatic hydrocarbons in airborne particulates collected in downtown and suburban Kanazawa, Japan
Y. Sekine	5543	Oxidative decomposition of formaldehyde by metal oxides at room temperature
M. Abu-Allaban, A.W. Gertler and D.H. Lowenthal	5549	A preliminary apportionment of the sources of ambient PM ₁₀ , PM _{2.5} , and VOCs in Cairo
<i>Publisher's note</i>	5559	Other Papers presented at the 12th Clean Air & Environment Congress and Exhibition
List of Forthcoming Papers	I	

Numbers 36-37

Fast Track paper

A.D. Maynard and R.L. Maynard	5561	A derived association between ambient aerosol surface area and excess mortality using historic time series data
-------------------------------	------	---

Regular papers

N. Bukowiecki, J. Dommen, A.S.H. Prévôt, R. Richter, E. Weingartner and U. Baltensperger	5569	A mobile pollutant measurement laboratory—measuring gas phase and aerosol ambient concentrations with high spatial and temporal resolution
F. Wania and G.L. Daly	5581	Estimating the contribution of degradation in air and deposition to the deep sea to the global loss of PCBs
Z. Ould-Dada, D. Copplestone, M. Toal and G. Shaw	5595	Effect of forest edges on deposition of radioactive aerosols
A. Lupu and W. Maenhaut	5607	Application and comparison of two statistical trajectory techniques for identification of source regions of atmospheric aerosol species
M.R.J. Doorn, D.F. Natschke, S.A. Thorneloe and J. Southerland	5619	Development of an emission factor for ammonia emissions from US swine farms based on field tests and application of a mass balance method
S. Mukherji, A.K. Swain and C. Venkataraman	5627	Comparative mutagenicity assessment of aerosols in emissions from biofuel combustion
S.B. St. Clair, L.L. St. Clair, N.F. Mangelson and D.J. Weber	5637	Influence of growth form on the accumulation of airborne copper by lichens
W.-K. Jo and K.-Y. Kim	5645	Vertical variability of volatile organic compound (VOC) levels in ambient air of high-rise apartment buildings with and without occurrence of surface inversion

D. Mavrocordatos, R. Kaegi and V. Schmatloch	5653	Fractal analysis of wood combustion aggregates by contact mode atomic force microscopy
T. Grøntoft	5661	Dry deposition of ozone on building materials. Chamber measurements and modelling of the time-dependent deposition
J.E. Sickles II and D.S. Shadwick	5671	Precision of atmospheric dry deposition data from the Clean Air Status and Trends Network
P.A. Roelle, V.P. Aneja, R. Mathur, J. Vukovich and J. Peirce	5687	Modeling nitric oxide emissions from biosolid amended soils
R. Ohba, T. Hara, S. Nakamura, Y. Ohya and T. Uchida	5697	Gas diffusion over an isolated hill under neutral, stable and unstable conditions
H.J. Zemelink, W.W.C. Gieskes, W. Klaassen, H.W. de Groot, H.J.W. de Baar, J.W.H. Dacey, E.J. Hintsa and W.R. McGillis	5709	Simultaneous use of relaxed eddy accumulation and gradient flux techniques for the measurement of sea-to-air exchange of dimethyl sulphide
B. Sportisse and L. du Bois	5719	Numerical and theoretical investigation of a simplified model for the parameterization of below-cloud scavenging by falling raindrops
A.P. Prince, J.L. Wade, V.H. Grassian, P.D. Kleiber and M.A. Young	5729	Heterogeneous reactions of soot aerosols with nitrogen dioxide and nitric acid: atmospheric chamber and Knudsen cell studies
<i>Short communication</i>		
E.M. Knipping and D. Dabdub	5741	Modeling surface-mediated renoxification of the atmosphere via reaction of gaseous nitric oxide with deposited nitric acid
<i>Corrigendum</i>		
W.R. Simpson, M.D. King, H.J. Beine, R.E. Honrath and M.C. Petersen	5749	Corrigendum to "Atmospheric photolysis rates during the Polar Sunrise Experiment ALERT2000" [Atmospheric Environment 36 (15-16) 2471-2480 (2002)]
List of Forthcoming Papers	I	

Number 38

Atmospheric Environment International Issue: North America, Asia and Africa & The Middle East

North America

M.P. Fraser, Z.W. Yue, R.J. Tropp, S.D. Kohl and J.C. Chow	5751	Molecular composition of organic fine particulate matter in Houston, TX
J. Lin and D.A. Niemeier	5759	An exploratory analysis comparing a stochastic driving cycle to California's regulatory cycle
J.A. Salmond and I.G. McKendry	5771	Secondary ozone maxima in a very stable nocturnal boundary layer: observations from the Lower Fraser Valley, BC
Y. Gao	5783	Atmospheric nitrogen deposition to Barnegat Bay
M.-D. Cheng and R.L. Tanner	5795	Characterization of ultrafine and fine particles at a site near the Great Smoky Mountains National Park
S.G. Brown, P. Herckes, L. Ashbaugh, M.P. Hannigan, S.M. Kreidenweis and J.L. Collett Jr.	5807	Characterization of organic aerosol in Big Bend National Park, Texas
Y. Xu, M.L. Wesely and T.E. Pierce	5819	Estimates of biogenic emissions using satellite observations and influence of isoprene emission on O ₃ formation over the eastern United States

Asia

- L.Y. Chan, W.L. Lau, S.C. Zou, Z.X. Cao and S.C. Lai 5831 Exposure level of carbon monoxide and respirable suspended particulate in public transportation modes while commuting in urban area of Guangzhou, China
- M. Odabasi, A. Muezzinoglu and A. Bozlaker 5841 Ambient concentrations and dry deposition fluxes of trace elements in Izmir, Turkey
- M. Hu, L.-Y. He, Y.-H. Zhang, M. Wang, Y.P. Kim and K.C. Moon 5853 Seasonal variation of ionic species in fine particles at Qingdao, China

Africa and The Middle East

- M. Viana, X. Querol, A. Alastuey, E. Cuevas and S. Rodríguez 5861 Influence of African dust on the levels of atmospheric particulates in the Canary Islands air quality network

List of Forthcoming Papers

I

Numbers 39-40

- K. Wittmaack, N. Menzel, H. Wehnes and U. Heinzmann 5877 Phase separation and regrowth of aerosol matter collected after size fractionation in an impactor
- G. Dongarrà and D. Varrica 5887 $\delta^{13}\text{C}$ variations in tree rings as an indication of severe changes in the urban air quality
- T. Anttila, V.-M. Kerminen and M. Kulmala 5897 A tool for estimating the contribution of water-soluble organic compounds to the particle mass and condensational growth in the atmosphere
- M. Ebert, M. Inerle-Hof and S. Weinbruch 5909 Environmental scanning electron microscopy as a new technique to determine the hygroscopic behaviour of individual aerosol particles
- C. Bedos, M.-F. Rousseau-Djabri, D. Flura, S. Masson, E. Barriuso and P. Cellier 5917 Rate of pesticide volatilization from soil: an experimental approach with a wind tunnel system applied to trifluralin
- W. Kuttler, T. Lamp and K. Weber 5927 Summer air quality over an artificial lake
- K.A. Mace and R.A. Duce 5937 On the use of UV photo-oxidation for the determination of total nitrogen in rainwater and water-extracted atmospheric aerosol
- M. Sørensen, M.D. Hurley, T.J. Wallington, T.S. Dibble and O.J. Nielsen 5947 Do aerosols act as catalysts in the OH radical initiated atmospheric oxidation of volatile organic compounds?
- K.N. Dirks, M.D. Johns, J.E. Hay and A.P. Sturman 5953 A simple semi-empirical model for predicting missing carbon monoxide concentrations
- P.-J. Tsai, C.-C. Lee, M.-R. Chen, T.-S. Shih, C.-H. Lai and S.-H. Liou 5961 Predicting the contents of BTEX and MTBE for the three types of tollbooth at a highway toll station via the direct and indirect approaches
- A.A. Kiselev and I.L. Karol 5971 The ratio between nitrogen oxides and carbon monoxide total emissions as precursors of tropospheric hydroxyl content evolution
- J.N. Cape and I.D. Leith 5983 The contribution of dry deposited ammonia and sulphur dioxide to the composition of precipitation from continuously open gauges
- S.C. Pryor, R.J. Barthelmie, B. Jensen, N.O. Jensen and L.L. Sørensen 5993 HNO_3 fluxes to a deciduous forest derived using gradient and REA methods

D. Valiulis, D. Čeburnis, J. Šakalys
and K. Kvietkus

S.A. Batterman, C.-Y. Peng and J. Braun

T. Meklin, T. Reponen, M. Toivola,
V. Koponen, T. Husman, A. Hyvärinen
and A. Nevalainen

R.E. Peterson and B.J. Tyler

S. Matsunaga, M. Mochida, T. Saito
and K. Kawamura

Corrigendum

T.W. Kirchstetter, R.A. Harley,
N.M. Kreisberg, M.R. Stolzenburg
and S.V. Hering

List of Forthcoming Papers

6001 Estimation of atmospheric trace metal emissions in Vilnius
City, Lithuania, using vertical concentration gradient and
road tunnel measurement data

6015 Levels and composition of volatile organic compounds on
commuting routes in Detroit, Michigan

6031 Size distributions of airborne microbes in moisture-damaged
and reference school buildings of two construction types

6041 Analysis of organic and inorganic species on the surface of
atmospheric aerosol using time-of-flight secondary ion mass
spectrometry (TOF-SIMS)

6051 In situ measurement of isoprene in the marine air and surface
seawater from the western North Pacific

6059 Corrigendum to "On-road measurement of fine particle and
nitrogen oxide emissions from light- and heavy-duty motor
vehicles" [Atmospheric Environment 33 (18) (1999) 2955–
2968]

I

AUTHOR INDEX

- Aarhus, B. 3819, 3829
 Aarnio, P. 2109, 3183
 Abas, M.R.B. 247
 Abe, O. 4941
 Aboal, J.R. 1163
 Aboukaïs, A. 939
 Abu-Allaban, M. 5549
 Adams, F. 899
 Adams, H.S. 5335
 Adgate, J.L. 3255
 Adler, H. 2985
 Adriaens, A. 899
 Agranovski, I.E. 889
 Agranovski, V. 889
 Agrell, C. 371
 Agrell, J. 371
 Aherne, J. 1379
 Akimoto, H. 385, 4235, 4929
 Akutsu, K. 5535
 Alastuey, A. 3101, 3113, 5861
 Albaladejo, J. 3231
 Albert, M. 2733
 Albert, M.R. 2671, 2779, 2789
 Albizuri, A. 1349
 Alessio, M. 5405
 Alföldy, B. 2207
 Allegrini, I. 5299, 5385
 Allen, D. 3321, 3779, 3973, 4991
 Alm, S. 963
 Almbauer, R.A. 2943
 Alonso, L. 1349
 Altimir, N. 19
 Amagai, T. 3591
 Amann, M. 175
 Ames, M.R. 2263
 An, J. 4159
 Anderson, M.J. 3629, 3643
 Anderson, P.D. 1875
 Anderson, S. 3779
 Andersson, B. 1443, 3299
 Andino, J.M. 149
 Andracchio, A. 5097
 Andrade, L.R. 881
 Andréasson, K. 4735
 Andreae, M.O. 1909
 Andrews, M.J. 1137
 Aneja, V.P. 137, 1087, 5687
 Anfossi, D. 1147
 Anlauf, K.G. 2535, 2553
 Anselmi, S. 5405
 Antony Chen, L.-W. 4541
 Anttila, T. 5897
 Ao, C.-H. 225
 Aoki, M. 3391
 Apadula, F. 5517
 Aplin, K.L. 4037
 ApSimon, H.M. 5417
 Arey, J. 4347
 Arimoto, R. 89, 4189
 Aristarain, A.J. 765
 Armolaitis, K. 1465
 Arnold, F. 1757, 1821, 2979
 Arocena, J.M. 1721
 Arsenault, M. 2501, 2513
 Arsenault, M.A. 2629
 Artaxo, P. 2427
 Asakuma, K. 1531
 Aschmann, S.M. 4347
 Ashbaugh, L. 5807
 Asher, W.E. 1483
 Astorga, C. 3867
 Atkeson, T. 3289
 Atkinson, R. 4347
 Atlas, E. 2585
 Audiffren, N. 873
 Auld, V. 2901
 Aulenbach, B.T. 1577
 Aulenbach, B.T. S1577
 Avery, G.B. 3557
 Avila, A. 2881
 Babiker, M. 3659
 Baboukas, E. 5131
 Bac, V.T. 3473
 Bacher, C. 1237
 Bacher, M. 2943
 Bae, G.-N. 5427
 Bae, S.Y. 5491
 Baechlin, W. 157
 Báez, A.P. 2367
 Bai, H. 421, 4357
 Baik, J.-J. 527
 Baird, J.C. 825
 Baker, B. 3793
 Baker, J.E. 1205
 Baker, J.M. 4309
 Baker, P.G.L. 2459
 Balakrishnan, R. 3461
 Bales, R.C. 2157, 2619
 Ballesteros, B. 3231
 Balling Jr., R.C. 1655
 Balsam, W. 89
 Baltensperger, U. 5569
 Barber, D. 2545
 Bardouki, H. 4627
 Barletta, B. 3429
 Barna, M.G. 3531
 Barnes, I. 3685
 Barnett, M.O. 835, 847
 Barrie, L.A. 2683
 Barriuso, E. 5917
 Barthelmie, R.J. 5993
 Basdevant, C. 483
 Batterman, S.A. 6015
 Bauer, S.E. 2187
 Baumann, K. 161
 Beaney, G. 2319
 Becker, A. 3999, 4001

- Becker, K.H. 3685
 Bedos, C. 5917
 Beer, T. 753
 Beevers, S.D. 3021, 4849
 Beine, H.J. 2471, 2663, 2707, 2733, 5299, 5749
 Bellander, T. 4077
 Belmont, R.D. 2367
 Benedetti, S. 4069
 Benesch, J.A. 1233
 Benner Jr., B.A. 4463
 Bentley, S.T. 4965
 Bergin, M.H. 161
 Bermejo, V. 4441
 Bertho, M.-L. 939
 Bertman, S.B. 1895
 Bertoni, D. 5517
 Beswick, K.M. 791
 Beverland, I.J. 5343
 Biedermann, M. 4839
 Biesenthal, T.B. 2743
 Biester, H. 3241
 Binderup, M.-L. 4617
 Biraud, S. 2799
 Birks, J.W. 2595
 Birmili, W. 2215
 Bishop, G.A. 5177
 Biswas, H. 629
 Blake, D.R. 2671, 3429
 Blake, N. 2523
 Blake, N.J. 2671
 Blanchard, P. 1041, 3735
 Blanchoud, H. 2891, 5395
 Blumthaler, M. 4397
 Boch, J.P. 5081
 Bond, D.W. 1509
 Bonsang, B. 3127
 Borch, F. 1123
 Borgini, A. 4705
 Bortnick, S.M. 1783
 Bossen, M.E. 2965
 Bottenheim, J. 2653, 2733, 2779
 Bottenheim, J.W. 2467, 2491, 2535, 2553, 2573, 2585, 2609, 2641, 2721, 2743
 Boudries, H. 2573, 2585, 2609, 2733, 2743
 Bouhsina, S. 939
 Boulter, J. 2595
 Bovolenta, A. 4069
 Bower, K.N. 791
 Boylan, J.W. 3721
 Bozlaker, A. 5841
 Bragazza, L. 4069
 Brailsford, G.W. 4663
 Brauer, M. 4077
 Braun, J. 6015
 Bravo, H. 3843
 Breed, C.A. 1721
 Brehme, K.A. 2135
 Brenninkmeijer, C.A.M. 2831
 Brickell, P.C. 2585
 Bridges, K. 3375
 Bridges, K.S. 353
 Bridgman, H.A. 3375
 Brimblecanbe, P., 1565
 Broderick, B.M. 975
 Bromley, A.M. 4663
 Brönnimann, S. 2841
 Brook, J.R. 537, 4787
 Brown, L. 917, 4157
 Brown, S.G. 5807
 Bruinen de Bruin, Y. 963
 Brunciak, P. 2281
 Brunekreef, B. 4077
 Brunet, Y. 77
 Brunke, E.-G. 2257, 2459
 Buchanan, C.M. 5343
 Buchmann, B. 2841
 Buda, A. 3767
 Bueno, E. 3843
 Builtjes, P.J.H. 1195
 Bukowiecki, N. 5569
 Bullock Jr., O.R. 2135
 Bullock, R. 3881
 Burkhart, J.F. 2157
 Burkholder, J.B. 1895
 Busen, R. 1821
 Bussink, D.W. 3309
 Butler, T.J. 5197
 Cabanes, A. 2609, 2695, 2753, 2767
 Cadle, S. 4223
 Cadum, E. 4705
 Caggiano, R. 3071
 Cai, X.-M. 2997
 Cai, Z. 5149
 Calori, G. 175, 1957
 Camargo, P.B. 2427
 Campbell, D.H. 2337
 Campbell, G. 2867
 Campbell, S.W. 4299
 Canosa-Mas, C.E. 2201
 Cao, J.J. 4189
 Cao, L. 1951
 Cao, Z.X. 5831
 Cape, J.N. 1843, 5983
 Carballeira, A. 1163
 Carignan, J. 3759
 Carissimo, B. 5067
 Carley, R.J. 4517
 Carmichael, G. 4251
 Carmichael, G.R. 175, 1957, 3917
 Carrara, A. 77
 Carrer, P. 4593
 Carrico, C.M. 161
 Carroll, J.J. 3745
 Carslaw, D.C. 1431, 3021, 4849
 Carslaw, N. 1363
 Carter, W.P.L. 115
 Carvalho, J.C. 1147
 Carvalho, L.R.F. 307
 Cassardo, C. 5517
 Cassiani, M. 4707, 4717
 Castelli, S.T. 1147

- Catrambone, M. 5385
Cavicchi, C. 5097
Čeburnis, D. 1465, 6001
Cecinato, A. 3195
Cellier, P. 5917
Cerón, R.M.B. 2367
Chah, S. 4851
Chaloulakou, A. 1769
Chameides, W.L. 4895
Chan, A.T. 1543
Chan, C.-C. 3041
Chan, C.-Y. 5141
Chan, C.K. 2099, 4223
Chan, C.Y. 255, 2039, 3363
Chan, J.C.L. 591, 2013
Chan, L.-Y. 1929
Chan, L.Y. 255, 2003, 2039, 3363, 5141, 5831
Chan, T. 4223
Chan, T.L. 861
Chand, D. 603
Chang, C.-N. 1921
Chang, K. 4357
Chang, L.-F.W. 1993
Chang, M. 1099
Chang, M.B. 279
Chang, S. 4991
Chang, S.-C. 1921
Chang, S.-H. 279
Chang, S.-Y. 1521, 1883
Chang, Y.-S. 2237, 5109
Chao, C.Y. 265
Chen, C.-D. 1921
Chen, C.-L. 411, 421, 2049
Chen, M.-R. 5961
Chen, R.-H. 403
Chen, W. 1895
Chen, W.-H. 3671
Chen, W.-L. 3041
Cheng, A.Y.S. 3601, 3615
Cheng, M.-D. 5795
Cheng, M.-T. 421
Cheng, T. 5025
Cheng, W.-L. 2049, 3445
Cheng, X. 4159
Cheng, Y. 4189
Cheng, Z. 4941
Chetwittayachan, T. 2027
Cheung, C.S. 861
Chevreuil, M. 5395
Chimidza, S. 2447
Chiu, C.H. 1041
Chiu, G.M.Y. 57
Cho, S.Y. 175
Chock, D.P. 4649
Choi, E. 4851
Chow, J.C. 465, 3865, 4541, 5751
Christophilopoulos, E. 5355
Chughtai, A.R. 1827
Church, T.M. 4529
Ciais, P. 2799
Civerolo, K. 2225
Clappier, A. 2817, 5323
Clark, D. 3793
Clark, T. 3289
Clow, D.W. 2337
Cobos, D.R. 4309
Cofala, J. 1309
Coggins, A.M. 5267
Colhoun, C. 2901
Colin, J.L. 5365
Collett Jr., J.L. 31, 45, 5043, 5807
Colls, J. 2931
Colvile, R.N. 5335
Conforto, L. 5405
Cook, S.L. 2955
Cooke, K.M. 2147
Coppi, S. 4069
Copplesone, D. 5595
Corden, J. 1363
Corsi, R. 3973
Corsmeier, U. S19, 53
Courcot, L. 939
Couto, J.A. 1163
Coyle, M. 1013
Crosignani, P. 4705
Crouch, A.M. 2459
Cuevas, E. 5861
Cullen, N.J. 2595, 2619, 2629
Cunningham, M.M. 825
Currie, L.A. 4463
Cyrus, J. 4077
Czuba, E. 1173

da Rosa, M.B. 4627
Dabdub, D. 5741
Dacey, J.W.H. 911, 5709
Dachs, J. 2281
Dăescu, D. 3917
Daly, E.P. 3629, 3643
Daly, G.L. 5581
Dantas, E.S.K. 2397
David, D. 2595
Davies, T.D. 353, 3375
Davies, T.J. 999
Davis, J.M. 1793
Davis, R.E. 2641
Day, D.E. 5043
de Almeida Azevedo, D. 2383, 3009
de Aquino Neto, F.R. 2383, 3009
de Baar, H.J.W. 5709
de Fátima Andrade, M. 345
de Groot, H.W. 5709
de la Rosa, F.J.B. 773
de la Rosa, J. 3113
de Miranda, R.M. 345
de Pablo, F. 2809
De, T.K. 629
Decesari, S. 1827
Degrazia, G.A. 67, 1147
Del Guasta, M. 2853
Delmas, R.J. 765
Deng, G. 2225

- Denmead, O.T. 1833
 Dennis, A. 3779
 Derwent, R.G. 1363, 2799, 4045, 4425, 4725
 Deutsch, F. 4103
 DeWalle, D.R. 3767
 Dhaubhadel, R. 1249
 Di Bari, F. 5299
 Di Menno Di Buccianico, A. 5385
 Dias, M.A.S. 5245
 Dibb, J.E. 2467, 2501, 2513, 2523, 2629, 2671, 4463
 Dibble, T.S. 5947
 Dick, W. 1853
 Dickerson, R.R. 4541
 Dietz, R.N. 2147
 Ding, A. 2003
 Ding, Q. 1077
 Ding, W. 5149
 Dintaman, J. 825
 Dirks, K.N. 5953
 Dixon, A.J. 3745
 Djouad, R. 873
 Doddridge, B.G. 4541
 Dominé, F. 2553, 2573, 2609, 2695, 2707, 2733, 2743, 2753, 2767
 Dommen, J. 5569
 Dong, G. 861
 Dong, W. 5207
 Dongarra, G. 5887
 Doorn, M.R.J. 5619
 Dorling, S. 3161
 Dorsey, J.R. 791
 dos Santos, C.Y.M. 2383, 3009
 Doskey, P.V. 825
 Doty, K.G. 3721
 Doyle, M. 3161
 Drab, E. 5365
 Drayton, P.J. 825
 D'Emilio, M. 3071
 Driscoll, C.T. 1051, 1631
 Driscoll, C.T. S1631
 Druilhet, A. 77
 Dryfhout-Clark, H. 3735
 du Bois, L. 5719
 Du, S. 3049
 Duane, M. 3867
 Duce, R.A. 5119, 5937
 Duclaux, O. 5081
 Duffy, J.M. 2201
 Dunlap, C. 1421
 Durbin, T.D. 1475
 Dvorkin, Y. 483
 Dziobak, M. 2563

 Ebert, M. 5909
 Ebinghaus, R. 3881, 5267
 Eckhardt, S. 4635
 Economou, C. 1337
 Eichkorn, S. 1821
 Eisenreich, S.J. 1077, 2281
 Elbert, W. 1909

 Eli Sherman, D. 5043
 Ellul, R. 1391
 Engardt, M. 175
 Engstrom, D.R. 1599
 Engstrom, D.R. S1599
 Ensor, K. 4767
 Erdakos, G.B. 1483
 Ernst, D. 1173
 Espinosa, A.J.F. 773
 Evans, M.C. 4299

 Fabbri, B. 5289
 Facchini, M.C. 1827
 Fan, H. 713
 Fang, G.-C. 1921, 4357
 Fang, M. 2099, 4223
 Farina, M. 881
 Farrell, E.P. 1379
 Fatogoma, O. 3699
 Feczko, T. 4125
 Fedorovich, E. 2245, 3709
 Feilberg, A. 3591, 4617
 Fengqing, J. 4941
 Fernández, J.A. 1163
 Fernández, M.M. 5235
 Ferrarese, S. 5517
 Fick, J. 1443, 3299
 Fiedler, F. S19, 33
 Field, M.P. 1077
 Filho, G.M.A. 881
 Finlayson-Pitts, B.J. 2721
 Fischer, P. 4077
 Fisher, B.E.A. 1025, 2121
 Fitzpatrick, T. 2309
 Flegal, A.R. 1421
 Flues, M. 2397
 Flura, D. 5917
 Fornaro, A. 2397
 Forss, A.-M. 4745
 Forster, C. 4635
 Foster, K.L. 2721
 Fowler, D. 791, 1013, 2276
 Franz, T.P. 2281
 Fraser, M. 3779, 4767
 Fraser, M.P. 5751
 Freitas, S. 5245
 Frejafon, E. 5081
 Frey, M. 2523
 Frey, M.M. 2619
 Friedfeld, S. 4767
 Friedrich, R. S1, 7, 53, 81
 Froude, F.A. 3735
 Fu, J.-M. 5141
 Fu, J.M. 2039
 Fu, L. 4907
 Fu, P.P.-C. 1921
 Fuentes, J.D. 2535, 2641, 2653, 2743, 5299
 Fujita, S.-i. 4201
 Fujita, T. 5443
 Fukuyama, T. 441

- Fukuzaki, N. 3505
Fuller, G.W. 1363, 1431
Fung, K. 1287
Fuzzi, S. 1827
- Gaffney, J.S. 825
Gallagher, M.W. 791
Gallardo, L. 3819, 3829
Galloway, J.N. 4529
Galán, E. 5289
Gangoiti, G. 1349
Gao, S. 1299, 1299
Gao, Y. 1077, 5783
Garban, B. 2891, 5395
García, A.R. 2297
García, J.A. 1349
García, R.M. 2367
García, S. 5277
García-Alonso, S. 4441
Gårdfeldt, K. 1405
Garg, A. 213
Gariépy, C. 3759
Garofalakis, J.E. 3173
Gaudichet, A. 5365
Gbondo-Tugbawa, S.S. 1631
Gbondo-Tugbawa, S.S. S1631
Gehring, U. 4077
Geiger, H. 1737
Geller, M.D. 1099, 3939
Georgoulis, L.B. 963
Gerdol, R. 4069
Geron, C. 3793
Gertler, A. 3277
Gertler, A.W. 5549
Ghim, Y.S. 201
Ghosh, D. 213
Gidhagen, L. 3803
Giebl, H. 1553
Gieskes, W.W.C. 911, 5709
Gigliotti, C.L. 1077, 2281
Gilliland, A.B. 5197
Gimeno, B.S. 3931, 4441
Gimson, N.R. 3531
Giostra, U. 4707, 4717
Giraud, C. 5517
Glastrup, J. 3909
Glavas, S. 3089
Glenn IV, T.R. 2281
Glenn, T.R. 1077
Gnauk, T. 2215
Goldstein, A.H. 4503
Goncalves, F.L.T. 5245
Gong, S. 537
González, I. 5289
González, L. 3843
Gonzalez-Flesca, N. 1025, 2121
Górecki, T. 2907
Gotti, A. 5517
Gough, W.A. 2319
Goulding, K.W.T. 917, 4157
Goyal, P. 2071, 2925
- Grannas, A.M. 2553, 2573, 2609, 2721, 2733, 2743, 2779
Grant, R.H. 1619
Grant, R.H. S1619
Grant, T. 753
Grassian, V.H. 5729
Graul, R. 2831
Greally, B.R. 2147
Green, L.C. 2263
Green, S. 2545
Green, S.A. 2563
Greenberg, J. 3793, 4265
Greenberg, J.P. 2421
Grieken, R.V. 2207, 4103
Griffith, D.W.T. 1833
Grinshpun, S.A. 889
Grob, K. 4839
Grøntoft, T. 5661
Gros, V. 2831, 3127
Grosjean, D. 2405
Grosjean, E. 2405
Grubišić, V. 3865
Grunow, K. 3565
Gryniewicz, M. 361
Guenther, A. 3147, 3793, 4265
Guenther, A.B. 2421
Guillaumond, C. 5081
Guimbaud, C. 2573, 2609, 2733, 2743
Gundel, L.A. 307
Gunter, R.L. 4337
Guo, H. 1929
Gupta, S. 97, 1309
Güsten, H. 1391
Gustin, M.S. 835, 847, 1233, 3241
Gysels, K. 4103
- Habram, M. S19, 53, 61, 81
Hainsch, A. 3565
Hakami, A. 2817
Hallquist, M. 4115
Halsall, C.J. 5311
Hama, P. 2397
Hamada, N. 5443
Hamdi, S. 5479
Han, J.-S. 5509
Hand, J.L. 1853, 5043
Hanna, S.R. 1793, 5067
Hannigan, M.P. 5807
Hao, J. 4907
Hara, H. 3505
Hara, T. 5697
Härkönen, J. 4057
Hari, P. 19
Harley, P. 3147
Harley, P.C. 2421
Harley, R.A. 2327, 6059
Harnisch, J. 3659
Harrison, M.A.J. 1843
Harrison, R.G. 159, 4037
Hart, H.L. 825
Hartonen, K. 2985

- Harvey, M.J. 4663
 Hasegawa, S. 3899
 Hashimoto, S. 1241
 Havasi, Á. 4145
 Havig, J. 1799
 Hay, J.E. 5953
 Hayakawa, K. 5535
 Hayami, H. 175
 Hayashi, K. 3505
 Hayashi, M. 2061
 Hayward, S. 5311
 He, K. 4223
 He, L.-Y. 5853
 Heal, M.R. 1843, 5343
 Hedberg, E. 4823
 Heeb, N.V. 4745
 Heeres, P. 2965
 Heinrich, G. 1391
 Heinrich, J. 4077
 Heinzmann, U. 5877
 Helmig, D. 2595
 Helms, J.A. 1875
 Hemming, B.L. 2271
 Hennings, H. 741
 Henry, R.C. 2237, 4541
 Her, G.-R. 3041
 Herckes, P. 5807
 Hering, S. 1853
 Hering, S.V. 5043, 6059
 Herrero, C. 5277
 Hess, A. 3719, 4422
 Hewitt, C.N. 3147, 3391, 5311
 Hien, P.D. 3473
 Hill, R. 2901
 Hillamo, R. 3183
 Hills, P. 1957
 Hindman, E.E. 727
 Hinds, W.C. 4323
 Hintsa, E.J. 5709
 Hirano, K. 435
 Hirokawa, J. 385
 Hitzenberger, R. 1267, 1553
 Hlinka, D. 1063, 2267
 Ho, K.F. 57, 1259
 Hodgson, A. 1247
 Hoek, G. 4077
 Hoffer, A. 4479
 Hogrefe, C. 3055
 Holland, P.M. 911
 Höller, R. 1267
 Holloway, T. 4251
 Holopainen, J.K. 1763
 Holsen, T.M. 3267
 Hong, J.-H. 5057
 Hong, Y.-M. 3485
 Hänninen, O. 963
 Hönninger, G. 2481
 Honrath, R. 2733
 Honrath, R.E. 2467, 2471, 2501, 2523, 2563, 2629, 2663, 2707, 5749
 Hopkins, J.R. 3217
 Hordijk, L. 1195
 Hosker, R.P. 4337
 Hou, S. 3351
 Houdier, S. 2553, 2573, 2609, 2695, 2743
 Houpis, J.L.J. 1875
 Hsieh, C.-C. 1993
 Hsieh, L.-T. 781
 Hsieh, W.-D. 403
 Hu, M. 5853
 Huai, T. 1475
 Huang, C.-Y. 4385
 Huang, G. 2225
 Huang, L. 1173, 1299
 Huang, P.-L. 421
 Huang, Y. 4895
 Hubert, A. 4679
 Huebert, B. 4189
 Huijsmans, J.F.M. 3309
 Hung, H. 1041
 Hung, W.T. 861
 Hunova, I. 353, 3375
 Huntley, N. 1247
 Hurley, M.D. 1237, 5947
 Husain, L. 4699
 Husman, T. 6031
 Hutchings, N.J. 3309
 Hutterli, M.A. 2157, 2619
 Hwa, M.-Y. 1993
 Hyman, R. 3659
 Hyötyläinen, T. 2985
 Hyvärinen, A. 6031
 Ianniello, A. 5299
 Ichikawa, Y. 175, 1309
 Ichiki, A. 5479
 Idso, C.D. 1655
 Idso, S.B. 1655
 Ikeda, Y. 175
 Ilyin, I. 3881
 Improta, S. 5405
 In, H.-J. 4173, 4877
 Inagaki, T. 4985
 Inerle-Hof, M. 5909
 Ingersoll, G.P. 2337
 Inoue, T. 1241
 Irwin, J.G. 2867
 Ishitani, O. 441
 Ishiwatari, R. 611
 Ito, M. 1051, 1499
 Iwasaka, Y. 5469, 5479
 Iwatsuki, M. 639
 Iyer, H. 3719, 4422
 Jacinto, P.S. 5235
 Jacko, R.B. 3699
 Jacobi, H.-W. 2523, 2619
 Jacobson, M.Z. 2349
 Jaffrezo, J.L. 5365
 James, P. 4635
 Jamie, I.M. 1833
 Jamriska, M. 4375

- Jana, T.K. 629
Jang, H.-N. 5057
Jang, M. 5057
Janhäll, S. 4115
Jantunen, M. 963, 3031, 4593
Jaques, P.A. 1675, 3939
Jarvis, S.C. 917, 4157
Jayaratne, E.R. 4375
Jazcilevich, A.D. 2297
Jenkin, M.E. 999, 4725
Jennings, S.G. 2799, 4479, 5267
Jensen, B. 5993
Jensen, N.O. 5993
Jeong, S.J. 1137
Jiang, Y. 5025
Jickells, T. 3375
Jickells, T.D. 353
Jiménez, E. 3231
Jo, W.-K. 5645
Jöckel, P. 2831
Johansson, C. 3803, 4823
Johansson, P.-Å. 4823
Johns, M.D. 5953
Johnson, B.J. 2595
Johnson, K. 1799
Jones, I.D. 3217
Jorquera, H. 315, 331
Josson, S. 1979
Jung, Y.-R. 3485
Junquera, V. 3321

Kado, N.Y. 307
Kaegi, R. 5653
Kahelin, H. 3803
Kajii, Y. 385
Kajino, M. 4159
Kakareka, S.V. 1407
Kakimoto, H. 5535
Kaldellis, J.K. 3173
Kalthoff, N. S19, 53
Kamens, R.M. 813
Kamman, N.C. 1599
Kamman, N.C. S1599
Kanakidou, M. 3127, 3137
Kanaya, Y. 4929
Kanayama, S. 5159
Kang, C.-M. 5509
Kang, C.H. 2917
Kang, M.-H. 3485
Kang, S. 3351
Kangas, L. 1111
Kapshe, M. 213
Karathanassis, S. 5355
Karlik, J.F. 5221
Karol, I.L. 5971
Karppinen, A. 2109, 4057
Karvosenoja, N. 3059
Kasahara, M. 1267
Kasper-Giebl, A. 1553, 1907
Kastner-Klein, P. 3709
Kato, S. 385, 4929

Katsouyanni, K. 963
Katsuno, T. 385
Kavouras, I.G. 3851
Kawamura, K. 2491, 6051
Kawashima, S. 2061
Kayin, S. 5417
Keene, W.C. 4529
Kelliher, F.M. 4663
Kelly, V.R. 1569
Kelly, V.R. S1569
Kendall, M. 5335
Kerminen, V.-M. 3183, 5897
Keronen, P. 19
Kesselmeier, J. 4679
Ketuly, K.A. 247
Keuler, K. 3999, 4001
Khan, A.J. 4699
Khare, M. 2083
Khwaja, H.A. 3429
Kido, M. 5469
Kieber, R.J. 3557
Kiebert, J., 1565
Kiendler, A. 1757, 2979
Kift, R. 4397
Kim, C.S. 3241
Kim, E.-J. 5109
Kim, H. 4851
Kim, J. 3413
Kim, J.-H. 5437
Kim, J.-J. 527
Kim, J.Y. 201
Kim, K.-H. 663, 2433, 3413, 4919, 5057
Kim, K.-Y. 5645
Kim, M.-G. 3485
Kim, M.-Y. 663, 2433, 3413, 4919
Kim, N. 4289
Kim, S. 4323
Kim, S.-B. 175
Kim, Y.-S. 5479
Kim, Y.J. 1287, 2917
Kim, Y.K. 449
Kim, Y.P. 1969, 5427, 5449, 5491, 5853
Kimmel, V. 4133
Kimura, Y. 3973, 4991
Kincaid, R. 1799
King, M. 2707
King, M.D. 2201, 2471, 2663, 5749
Kinjo, Y. 4235
Kirchner, F. 5323
Kirchstetter, T.W. 6059
Kirso, U. 813
Kiselev, A.A. 5971
Kitchen, K.P. 3203
Kizu, R. 5535
Klaassen, W. 5709
Kleefeld, S. 4479
Kleffmann, J. 1737
Kleiber, P.D. 5729
Klemp, D. S61, 81, 95, 109
Kley, D. S81
Klimont, Z. 1309

- Klotz, B. 3685
 Knipping, E.M. 5741
 Kock, H.H. 5267
 Koehler, C. 2619
 Kohl, S.D. 5751
 Koistinen, K. 3031
 Komazaki, Y. 1241
 König, C.S. 3951
 Koponen, V. 6031
 Koračin, D. 561
 Koronaki, I.P. 3173
 Koronakis, P.S. 3173
 Koskentalo, T. 2109, 3183
 Kosmidis, E. 5355
 Kotamarthi, V.R. 825
 Kottmeier, C. S19
 Kouimtzis, Th. 4453
 Kourtidis, K.A. 5355
 Kousa, A. 2109, 3031
 Koutrakis, P. 3851
 Kouvarakis, G. 929
 Krämer, M. 1909
 Kreidenweis, S.M. 1853, 5043, 5807
 Kreisberg, N. 1853
 Kreisberg, N.M. 6059
 Kristament, I.S. 4663
 Kristensson, A. 4823
 Krivácsy, Z. 4479
 Kroeze, C. 1195
 Kruetz, K. 3351
 Kuebler, J. 2817
 Kühlwein, J. S7, 53, 81
 Kuiken, T. 847
 Kukkonen, J. 2109, 4057
 Kulkarni, M.M. 4777
 Kulmala, M. 19, 2985, 5897
 Kumata, H. 611
 Kundi, M. 1733
 Künzli, N. 963, 3031, 4593
 Kurkjian, R. 1421
 Kurpius, M.R. 4503
 Kuttler, W. 5927
 Kuze, H. 1531
 Kvietskus, K. 1465, 6001
 Kyotani, T. 639

 Laakia, J. 3183
 Labuschagne, C. 2257
 Lagoudaki, E. 3851
 Lai, A.C.K. 1811
 Lai, C.-H. 5961
 Lai, S.C. 5831
 Lal, S. 603
 Lam, K.S. 2003
 Lamaud, E. 77
 Lamb, B. 1799
 Lamp, T. 5927
 Landing, W.M. 2309
 Langmann, B. 2187
 Langner, J. 3819, 3829
 Lansley, D.L. 1247

 Laortanakul, P. 651, 3495
 Lara, L.B.L.S. 2427
 Larsen, B.R. 3867
 Larsen, P.S. 4801
 Larson, D.J. 1559
 Larsson, P. 371, 4015
 Lassey, K.R. 4663
 Lau, W.L. 3363, 5831
 Laurila, T. 3059
 Lawrence, G.B. 1589
 Lawrence, G.B. S1589
 Lazure, L. 4577
 Ledoux, F. 939
 Lee, B.-K. 3485
 Lee, C.-C. 4385, 5961
 Lee, C.-T. 1521, 1883
 Lee, D.-S. 3485
 Lee, D.-W. 5109
 Lee, D.S. 2276
 Lee, E.-H. 4951
 Lee, G. 3413
 Lee, H.W. 449
 Lee, K.W. 5459
 Lee, S.-B. 5427
 Lee, S.-C. 1929, 5141
 Lee, S.-J. 1453, 2171
 Lee, S.C. 57, 225, 255, 1259, 2039, 3363
 Lee, W.-J. 781
 Lee, Y.-H. 619, 4951
 Lee, Y.C. 1957
 Legagneux, L. 2609, 2695, 2753, 2767
 Legrand, M. 1221
 Lehman, M.E. 1611
 Lehman, M.E. S1611
 Lehtilä, A. 3059
 Leith, I.D. 5983
 Leith, B. 4811
 Leleux, D. 4767
 Lemes, M.J.L. 2397
 Leonard, J. 4529
 Leong, S.T. 651, 3495
 Leskinen, A. 4057
 Leung, C.W. 861
 Leuning, R. 1833
 Leutwyler, M. 1
 Levy II, H. 4251
 Levy, J.I. 1063, 2267
 Lewis, A.C. 3217
 Lewné, M. 4077
 Li, C. 917, 4157
 Li, F.-C. 4385
 Li, H. 1077
 Li, J. 4699
 Li, L.M. 4189
 Li, S.-M. 2491
 Li, W.-M. 225, 1929
 Li, X. 5149
 Likens, G.E. 1569, 5197
 Likens, G.E. S1569
 Lin, J. 5759
 Lin, J.-J. 279

- Lin, J.J. 1911
Lin, M.-D. 2049
Lin, T.-H. 403
Lindberg, S.E. 835, 847, 5207
Lindfors, V. 3059
Lindgren, E.S. 2447
Lindqvist, O. 1405
Liou, S.-H. 5961
Liow, M.-C. 781
Lipsett, M.J. 1099
Liss, P.S. 5119
Lissi, E. 293
Liu, C. 1941
Liu, C.-Q. 5121
Liu, G. 161
Liu, H. 591
Liu, H.P. 2013
Liu, J.-H. 411, 421
Liu, J.X. 5501
Liu, Y.M. 255, 2039
Lixin, F. 1309
Ljungström, E. 519
Llusià, J. 3931
Lodge, H.W. 1431
Loescher, H.W. 3793
Löflund, M. 1553
Lohman, K. 3881
Lohmeyer, A. 157
Lohner, R. 5067
Longhetto, A. 5517
Lopez, A. 77
Losada, M. 5277
Louie, P.K.K. 1259
Loux, N.T. 1403
Lovett, G.M. 1569
Lovett, G.M. S1569
Lowenthal, D.H. 3865, 5549
Lowles, I. 2901
Lu, C. 4357
Lu, H.-C. 491
Lu, Y. 2563, 2629
Lucas, T. 5277
Luhar, A.K. 2997
Luo, C. 4895
Luo, Y. 4517
Lupu, A. 5607

Ma, Y.-P. 4385
Maben, J.R. 4529
Macchiato, M. 3071
Macdonald, R.W. 4603, 5067
Mace, K.A. 5937
MacIntosh, D.L. 107
Maeda, M. 3505
Maeda, T. 2061
Maenhaut, W. 5607
Major, G. 4125
Makar, P.A. 537
Malm, O. 881
Malm, W. 3719, 4422
Malm, W.C. 5043

Mandalakis, M. 4023
Manes, F. 5405
Manfra, L. 5405
Mangelson, N.F. 5637
Mangia, C. 67
Mani, N. 3461
Manju, N. 3461
Manninen, A.-M. 1763
Manning, A.J. 1363, 2799
Mannschreck, K. S61, 81, 95, 109
Manoli, E. 949
Mantilla, E. 3101
Marchesini, R. 4069
Marenco, A. 1123
Mari, C. 4491
Maria, S.F. 5185
Marley, N.A. 825
Marnane, I.S. 975
Marr, L.C. 2327
Martilli, A. 5323
Martin, J.B. 3735
Martinelli, L.A. 2427
Martín, F. 5323
Martín, P. 3231
Martinis, B.S. 307
Martínez, E. 3231
Marumoto, K. 239
Maruri, M. 1349
Maryon, R. 3203
Massambani, O. 5245
Masson, S. 5917
Mast, M.A. 2337
Masters, R.D. 1645
Masters, R.D. S1645
Matabuena, M. 1349
Mathiyarasu, R. 2933
Mathur, R. 5687
Matsuda, K. 4159
Matsumoto, J. 4929
Matsumura, T. 5479
Matsunaga, K. 5469
Matsunaga, S. 6051
Matta, E. 1827
Matuska, P. S61, 81
Mavrocordatos, D. 5653
Mavroidis, I. 1769
Mayer, M. 3659
Mayewski, P.A. 3351
Maynard, A.D. 5561
Maynard, R.L. 5561
Mayol-Bracero, O. 5265
Mazzer, D.M. 3865
McCulloch, R.B. 1661
McDonald-Buller, E. 3321, 4991
McGaughey, G. 3321
McGillis, W.R. 5709
McKay, A.H. 5221
McKay, M. 4503
McKendry, I.G. 5771
McMillan, A.C. 5005, 5015
McMurry, P.H. 1853

McNider, R.T. 3721
McQuaid, J.B. 3217
Medici, A. 4069
Mei, Z. 4663
Meinardi, S. 3429
Meinhardt, F. 2831
Meklin, T. 6031
Meliefste, K. 4077
Mengersen, K. 3545, 4375
Menzel, N. 5877
Mészáros, E. 4125
Metcalf, S. 987
Metcalf, S.E. 4045
Meyers, T. 5207
Meyers, T.P. 1577
Meyers, T.P. S1577
Miehe, P. 3917
Mihalopoulos, N. 929, 1337, 4627, 5131
Milford, J.B. 115, 3629, 3643
Miller, D.R. 3989
Miller, J.W. 1475
Miller, S.L. 3629, 3643
Millington, W. 1363
Millán, M.M. 1349
Minko, N.P. 385
Mirabelli, D. 4705
Mircea, M. 1827
Mitchell, M.J. 1051
Miura, K. 4367
Mocanu, R. 3685
Mochida, M. 6051
Modani, M. 1901
Modh, K.S. 603
Mokhtarzadeh-Dehghan, M.R. 3951
Möller, D. 3565
Möllmann-Coers, M. S53, 95, 109
Molnár, A. 4125
Molnár, P. 4115
Moloi, K. 2447
Momen, B. 1875
Mondelain, D. 5081
Monn, Ch. 1
Montag, J.A. 4529
Moody, J.L. 4529
Moon, D. 1063, 2267
Moon, K.-C. 5427
Moon, K.C. 1969, 5853
Moon, Y.S. 449
Moore, K.F. 31
Moran, M.D. 537
Morawska, L. 3545, 4277, 4375
Moreira, D.M. 67
Moreno-Jackson, R. 1811
Mori, I. 4569
Morita, M. 4569
Morrison, B.D. 801
Morrison, G.C. 1749
Moschonas, N. 3089
Moshhammer, H. 1733
Motelay-Massei, A. 2891, 5395
Motoyama, R. 5159

Mount, G.H. 1799
Moya, M. 2349
Mploutsos, A. 5355
Mueller, W.J. 157
Muezzinoglu, A. 5841
Mukherji, S. 5627
Mukhopadhyay, S.K. 629
Mulawa, P. 4223
Müller, K. 1323
Munthe, J. 2275, 3881
Murahashi, T. 5535
Murray, G. 1661
Muttamara, S. 651, 3495

Na, K. 1969
Nagai, T. 5479
Nagao, I. 1277
Nagatani, M. 5469
Nagendra, S.M.S. 2083
Nair, P.R. 603
Naja, M. 603
Nakada, H. 5469
Nakae, S. 4367
Nakamura, A. 3505
Nakamura, K. 4929
Nakamura, S. 5697
Nakazato, M. 5479
Namieśnik, J. 361, 2907
Naraoka, H. 611
Narayan, J. 2653
Narukawa, M. 2491
Nasstrom, J.S. 1559
Nater, E.A. 4309
Natschke, D.F. 5619
Navazo, M. 1349
Nazaroff, W.W. 1749, 1811
Neece, J. 4991
Nelson, E.D. 1077, 2281
Nelson, N. 3203
Nemitz, E. 791, 2276
Nester, K. S33
Neuberger, M. 1733
Neukom, H.-P. 4839
Nevalainen, A. 6031
Nhan, D.D. 3473
Ni, B. 1951
Nicholson, F. 3309
Nickless, G. 2147
Nicolaisen, F.M. 1237
Nielsen, O.J. 1237, 5947
Nielsen, T. 3591, 4617
Niemeier, D.A. 5759
Nieuwenhuijsen, M.J. 4593, 5335
Nilsson, C. 1443, 3299
Nishikawa, M. 4569
Nishita, C. 5469
Niu, S. 1941
Noda, J. 519
Noguchi, I. 3505
Nolle, M. 1391
Norbeck, J.M. 1475

- Norman, A.L. 1173
Norris, W.B. 3721
Noti, A. 4839
Nozoe, S. 3391
Núñez, L. 4441
Nye, L. 3289

Oanh, N.T.K. 4211
Obi, K. 385
Ochsenkühn, K. 4453
Odabasi, M. 3267, 5841
Odman, M.T. 3721
Oetl, D. 2943
Offenberg, J.H. 1205
Oglesby, L. 3031, 4593
Oh, J.-E. 5109
Oh, S. 149
Ohba, R. 5697
Ohizumi, T. 3505
Ohlsson, M. 4823
Ohta, S. 3899
Ohura, T. 3591
Ohya, Y. 5697
Okamoto, R.A. 307
Okla, L. 371
Okuda, T. 611
Olariu, R.I. 3685
Olcese, L.E. 299
Older, M.J. 5335
Olivares, G. 3819, 3829
Olivier, S. 2147
Ollivon, D. 2891, 5395
Oltmans, S.J. 2595
Omar, N.Y.M.J. 247
Ooki, A. 4367
O'Doherty, S. 1363, 2799
O'Donoghue, M. 4045
Orlando, J.J. 1895
Orville, R.E. 1509
Orzechowska, G.E. 571
Osada, K. 5469
Osán, J. 2207
Ostro, B.D. 1099
Otter, L.B. 4265
Ould-Dada, Z. 5595
Owen, S.M. 3147
Oyola, P. 3851
Ozaki, Y. 385

Pacyna, J. 2275
Padilla, H.G. 2367
Palacios, M. 5323
Palancar, G.G. 287
Palazzi, E. 1183
Paldor, N. 483
Paliatsos, A.G. 3173
Palm, W.-U. 4627
Palo, V.D. 3195
Pan, R.-C. 411, 421
Pandis, S.N. 2349
Panitz, H.-J. 533
Pankow, J.F. 1483

Panorska, A. 561
Parameswaran, K. 603
Park, C.-W. 1453, 2171
Park, H. 4851
Park, J.-S. 1707
Park, J.K. 449
Park, K.-C. 1453
Park, K.-J. 3485
Park, S.-H. 4173
Park, S.-U. 619, 4877, 4951
Park, S.H. 5459
Park, S.S. 1287, 2917
Parker, B. 2257
Pasanen, P. 1763
Patil, R.S. 4777
Pattey, E. 5015
Pätz, H.W. 561
Paulson, S.E. 571
Peña, R.M. 5277
Peake, B. 3557
Pedrini, P. 4069
Peirce, J. 5687
Peng, C.-Y. 6015
Peñuelas, J. 3931
Perez, P. 4555
Perez-Landa, G. 1349
Pérez-Pastor, R. 4441
Pericleous, K. 2121
Perkins, C. 4517
Perrier, S. 2553, 2573, 2609, 2695, 2743
Perrino, C. 5385
Perron, F.E. 2779
Perry Jr., J.J. 2309
Peters, N.E. 1577
Peters, N.E. S1577
Petersen, G. 3881
Petersen, M.C. 5749
Peterson, M. 2545
Peterson, M.C. 2471, 2501, 2523, 2563, 2629
Peterson, R.E. 6041
Phillips, V.R. 917, 4157
Pickin, J.G. 741
Pierce, T.E. 5819
Pilling, M.J. 4725
Piña, A.A. 5235
Pio, C. 3127
Pirrone, N. 2275
Plana, F. 3113
Plastridge, R.A. 2721
Platt, U. 2481
Plaza, J. 4441
Pochanart, P. 385, 4235
Podnar, D. 561
Pokharel, S.S. 5177
Polanska, L. 963
Polkowska, Ż. 361
Pollman, C.D. 2309
Poma, B. 3867
Pommer, L. 1443, 3299
Poole, G. 1041

- Poor, N. 3289
Poor, N.D. 4299
Pope, F. 1247
Porcja, R.J. 5185
Porro, E. 4705
Porter, P.S. 3055, 4420
Possanzini, M. 3195
Poulsen, M.W.B. 3591, 4617
Prati, P. 899
Pratt, G.C. 3255
Preszler Prince, A. 5729
Pretterhofer, G. 2943
Preunkert, S. 1221
Prévôt, A.S.H. 5569
Pryor, S.C. 5993
Przyk, E. 2907
Puel, C. 5081
Pujadas, M. 4441
Pulles, M.P.J. 1195
Puskaric, E. 939
Puxbaum, H. 1553

Qiao, H. 2225
Qin, D. 3351
Qiu, R. 2563
Quan, H. 4569
Querol, X. 3101, 3113, 5861

Ragosta, M. 3071
Rama Krishna, T.V.B.P.S. 2071
Ramachandran, G. 3255
Ramonet, M. 2799
Ramos, A.M. 5245
Rao, K.S. 4337
Rao, S.T. 3055, 4420
Raunemaa, T. 4057
Ravindran, S. 603
Raynal, D.J. 1645
Raynal, D.J. S1645
Reck, M. 4801
Reddy, C.K. 1979
Reddy, M.S. 677, 699, 1979
Redington, A.L. 1363, 4425
Rehle, D. 4767
Reilly, J.E. 31
Reilly, J.M. 3659
Reisinger, A.R. 4663
Rembges, D. 3867
Ren, J. 3351
Reponen, T. 889, 6031
Reyes, J. 4555
Rhee, S.H. 1475
Richards, P.J. 2955
Richter, P. 2375
Richter, R. 5569
Riekkola, M.-L. 2985
Rinne, H.J.I. 2421
Ritter, P. 5081
Rizza, U. 67
Robarge, W.P. 1661
Röckmann, T. 2831
Rodà, F. 2881

Rodríguez, M.E. 5323
Rodríguez, M.T. 773
Rodríguez, S. 3101, 5861
Roelle, P.A. 137, 1087, 5687
Romano, D. 5377
Romero, R. 2375
Rosario, O. 5265
Rosset, R. 4491
Rotko, T. 4593
Rousseau-Djabri, M.-F. 5917
Rowland, F.S. 2671, 3429
Rubio, M.A. 293
Rudolph, J. 1173
Ruiz, C.R. 3113
Ruiz-Suárez, L.G. 2297
Rumburg, B. 1799
Russell, A.G. 2817, 3721
Russell, L.M. 5185
Russell, M. 4991
Ryaboshapko, A. 3881
Ryall, D.B. 1363, 2799
Ryhl-Svendsen, M. 3909

Saathoff, P. 4577
Sada, K. 4757, 5527
Saija, S. 5377
Sailor, D.J. 713
Saito, S. 1277
Saito, T. 6051
Saitoh, K. 435
Sakai, T. 5479
Šakalys, J. 1465, 6001
Sakamoto, K. 441
Sakata, M. 239
Sakurai, T. 4201
Salmond, J.A. 5771
Samara, C. 949, 3583, 4453
Samoli, E. 963
Sánchez, J.C.J. 773
Sánchez, P. 3843
Sánchez-de-la-Campa, A. 3113
Sandu, A. 583, 2081, 3917
Sapkota, B. 1249
Sarofim, M.C. 3659
Sartin, J.H. 5311
Sarwar, G. 3973
Sato, A. 5527
Saunders, S.M. 4725
Savoie, F. 5081
Schaap, M. 1323
Schaller, E. 3999, 4001
Schatzmann, M. 4811
Scheeringa, K.L. 1619
Scheeringa, K.L. S1619
Schilling, J.S. 1611
Schilling, J.S. S1611
Shipa, I. 67
Schloesslin, C. 89
Schmatloch, V. 5653
Schmidt, H. 5081
Schmidt, K. S19

- Schmidt-Thomé, P. 3803
Scholtz, M.T. 5005, 5015
Schopflocher, T.P. 4405
Schrems, O. 2619
Schroeder, W. 2653
Schroeder, W.H. 2553
Schuster, B. 1553
Sciare, J. 5131
Seakins, P.W. 1247, 3217
Seibert, P. 4635
Seigneur, C. 3881
Seiler, W. S1
Seinfeld, J.H. 1483
Sekiguchi, K. 441
Sekine, Y. 5543
Sen, B.K. 629
Sen, S. 629
Seo, Y.-C. 5057
Seok, K.-S. 5057
Sera, K. 435
Seto, S. 3505
Sexton, K. 3255
Sextro, R.G. 1811
Sfantos, G.K. 3173
Shadwick, D.S. 4687, 5671
Shahin, U.M. 3267
Sharan, M. 97, 1901
Shaw, G. 5595
Shen, S. 3939, 4323
Sheng, G.-Y. 5141
Sheng, G.Y. 2039
Shepson, P.B. 2467, 2523, 2553, 2573, 2609, 2695, 2721, 2733, 2743, 2779
Sherman, D.E. 31
Sherrell, R.M. 1077
Shibata, T. 5479
Shih, T.-S. 5961
Shimazaki, D. 2027
Shimmo, M. 2985
Shine, K.P. 1237
Shirai, T. 435
Shon, Z.-H. 4289
Shooter, D. 1499, 3519
Shukla, P.R. 213
Shultz, E.F. 2789
Sickles II, J.E. 4687, 5671
Sidhartha 2925
Siegmann, K. 1
Sienra, R. 2375
Sillanpää, M. 3183
Simmonds, P.G. 1363, 2147, 2799
Simoneit, B.R.T. 4563, 5259
Simonetti, A. 3759
Simpson, I.J. 3429
Simpson, W. 2707, 2733
Simpson, W.R. 2471, 2663, 5749
Singh, H., 1565
Singh, M. 1675
Sioutas, C. 1099, 1675, 3939, 4323
Sjödén, Å. 4735
Skiba, U. 987
Skov, H. 4617
Slater, J.F. 4463
Slawson, P.R. 4603
Slemr, F. 2459
Slemr, F. S1, 19, 53, 61, 81, 95, 109
Smith, D.M. 1827
Smith, L. 1649
Smith, L. S1649
Smith, R.I. 1013
Sneath, R.W. 917, 4157
Søgaard, H.T. 3309
Sokolik, I.N. 4863
Solmon, F. 4491
Somayaji, K.M. 2933
Sommar, J. 1405
Sommer, S.G. 3309
Sørensen, D.N. 9
Sørensen, L.L. 5993
Sørensen, M. 5947
Soriano, L.R. 2809
Sosa, R. 3843
Southerland, J. 5619
Southwell, M. 4529
Sozanska, M. 987
Spain, T.G. 5267
Sparapani, R. 2707, 5299
Spengler, J.D. 1063, 2267
Spicer, C.W. 2721
Spichtinger, N. 4635
Spiegelman, C.H. 2237
Splawn, B.G. 2743
Sportisse, B. 873, 5719
St. Clair, L.L. 5637
St. Clair, S.B. 5637
Standzenieks, P. 2447
Stathopoulos, T. 4577
Stedman, D.H. 5177
Stedman, J.R. 999, 1013, 4089
Steffen, A. 2553, 2653
Steffen, K. 2595, 2619, 2629
Steiger, S. 1509
Steiner, A. 4895
Stephanou, E.G. 3851, 4023
Sternbeck, J. 4735
Stetzer, S.L. 1783
Stevens, R. 3289
Stewart, H. 2901
Stohl, A. 4635
Stolzenburg, M. 1853
Stolzenburg, M.R. 6059
Stoughton, T.E. 3989
Straub, D.J. 45
Streets, D.G. 385, 1309
Strom, R.K. 4603
Strommen, M.R. 813
Strong, C. 2641
Sturm, P.J. 2943
Sturman, A. 3339
Sturman, A.P. 5953
Su, H.J. 4385
Sudo, S. 2061

- Suhre, K. 4491
 Sullivan, D. 1063, 2267
 Sullivan, P.J. 4405
 Sumner, A.L. 2523, 2553, 2695, 2733
 Sun, L. 4977
 Sun, P. 4649
 Sunwoo, Y. 5509
 Surapipith, V. 3375
 Sutherland, D. 1721
 Swain, A.K. 5627
 Swanson, A. 2523
 Swanson, A.L. 2671
 Sweet, S.T. 1707
 Swietlicki, E. 4823
 Syed, B. 917, 4157
 Symeonidis, P. 5355
 Syri, S. 1111, 3059

 Tahir, N.M. 247
 Takada, H. 611
 Takeno, M. 441
 Takeuchi, N. 1531
 Tamanini, T. 3289
 Tamaru, T. 4985
 Tamm, E. 391
 Tammet, H. 4133
 Tamura, K. 5479
 Tanaka, H. 1277
 Tanaka, P. 4991
 Tanaka, S. 1241
 Tang, N. 5535
 Tang, U. 4907
 Tang, Y. 1691, 3917
 Tani, A. 3391
 Tanimoto, H. 4235, 4929
 Tanner, R.L. 5795
 Tarasick, D.W. 2535
 Tarnay, L.W. 3277
 Tate, K. 3289
 Taylor Jr., G.E. 3277
 Tehranian, S. 5067
 Teinemaa, E. 813
 Temme, Ch. 5267
 ten Brink, H.M. 1323
 ter Schure, A.F.H. 4015
 Terada, H. 503
 Tessier, J.T. 1645
 Tessier, J.T. S1645
 Tham, H.C. 3473
 Thatcher, T.L. 1811
 Thäter, J. 2245
 Theloke, J. S7
 Thibert, B. 1041
 Thiel, S. 4397
 Thiessen, K.M. 3057
 Thomas, S. 3545, 4277, 4375
 Thomasson, A. 5081
 Thompson, K.C. 2201
 Thomson, D.J. 5031
 Thorneloe, S.A. 5619
 Tian, W. 1951

 Tie, X. 1509
 Tiitta, P. 4057
 Tirabassi, T. 67
 Tissari, J. 4057
 Tittel, F. 4767
 Toal, M. 5595
 Tohno, S. 1267
 Toivola, M. 6031
 Tonelli, D. 5097
 Toom-Saunty, D. 2683, 4985
 Toriba, A. 5535
 Török, S. 2207
 Torres, M.C.B. 2367
 Toselli, B.M. 287, 299
 Totten, L.A. 2281
 Tovey, K. 3375
 Toyama, S. 3505
 Treffeisen, R. 3565
 Tribble, S. 4767
 Tropp, R.J. 5751
 Troshkin, D. 5479
 Trukenmüller, A. S7
 Truuts, T. 4133
 Tsai, P.-J. 781, 5961
 Tsapakis, M. 3851, 4023
 Tsigaridis, K. 3127, 3137
 Tsoga, A. 4023
 Tsuang, B.-J. 411, 421, 2049
 Tsuruta, H. 2061, 5149
 Tu, C.-Y. 421, 2049
 Tulet, P. 4491
 Tuovinen, J.-P. 3059
 Turk, J.T. 2337
 Turpin, B.J. 5185
 Tyler, B.J. 6041
 Tyndall, G.S. 1895

 Uchida, T. 5697
 Uchiyama, M. 441
 Ueda, H. 175, 503, 4159
 Uematsu, M. 4367
 Ullum, U. 4801
 Uno, I. 175
 Upadhyay, B.P. 727

 Valberg, P.A. 2263
 Valdenebro, V. 1349
 Valiulis, D. 1465, 6001
 van Aardenne, J.A. 1195
 van den Bergh, H. 2817
 van der Spuy, D. 2257
 Van Grieken, R. 345
 van Groenestijn, J.W. 5501
 Van Ham, R. 899
 Van Heyst, B.J. 5005, 5015
 van Hove, L.W.A. 2965
 Van Ry, D.A. 1077
 Van Vaeck, L. 899
 van Vliet, P. 4077
 Vana, M. 391
 Vardoulakis, S. 1025, 2121
 Varrica, D. 5887

- Vázquez, A. 5277
Venkataraman, C. 677, 699, 1979, 5627
Venkataramani, S. 603
Venkatesan, R. 2933
Venkatram, A. 2165
Vesala, T. 19
Vesely, V. 4823
Vet, R. 4787
Vette, A.F. 835, 847
Viana, M. 5861
Victoria, R.L. 2427
Viidanoja, J. 3183
Viksna, A. 2447
Villaseñor, G.T. 5235
Villena, G. 293
Vincent, K. 2867
Vinh, L.D. 3473
Vishvakarman, D. 3545
Vizuete, W. 3321
Voldner, E. 5005, 5015
von Baer, D. 3851
Voutsas, D. 949, 3583, 4453
Vukovich, J. 5687

Wade, J.L. 5729
Wade, T.L. 1707
Wagenbach, D. 1221
Walcek, C.J. 511
Walker, C.F. 4663
Walker, J.T. 1661
Waller, L.A. 3255
Wallington, T.J. 1237, 5947
Walton, A. 3601, 3615
Wang, C. 3659
Wang, C.-S. 477
Wang, D. 4189
Wang, G. 1299, 1941
Wang, H. 3519
Wang, J.-L. 3041
Wang, L. 115, 1299, 1941
Wang, M. 5853
Wang, P. 1951
Wang, T. 2003
Wang, T.J. 2003
Wang, X.-M. 5141
Wang, X.M. 2039
Wang, Y.-P. 4965
Wang, Z. 503, 4159, 4907
Wang, Z.-S. 5141
Wängberg, I. 1405, 3881
Wania, F. 5581
Wanner, H. 2841
Warren, R.F. 5417
Watson, H. 753
Watson, J.G. 465, 3865
Wayne, R.P. 2201
Weathers, K.C. 1569
Weathers, K.C. S1569
Webb, A.R. 4397
Weber, D.J. 5637
Weber, K. 5927

Webster, H.N. 5031
Webster, M.D. 3659
Wehner, B. 2215
Wehnes, H. 5877
Wei, X. 4577
Weilenmann, M. 4745
Weinbruch, S. 5909
Weingartner, E. 5569
Welch, J.M. 5221
Wenshou, W. 4941
Weschler, C.J. 9, 3973
Wesely, M.L. 5819
Westberg, H. 1799
Westerholm, R. 4823
Weston, K.J. 1013
Wexler, A.S. 1863
White, J.R. 4337
Whittlestone, S. 2257
Whyatt, J.D. 4045
Wickert, B. S7, 7
Wideqvist, U. 4823
Wiedensohler, A. 2215
Wiesen, P. 1737
Wilkinson, J.G. 3721
Willeke, K. 889
Willey, J.D. 3557
Williams, D. 753
Williams, P.I. 791
Williams, P.L. 107
Wilson, R.D. 1475
Winer, A.M. 5221
Winkler, S.L. 4649
Wittmaack, K. 3963, 5877
Wohlfrom, K.-H. 1821
Wolf, J.P. 5081
Wong, K.K. 265
Woo, J.-H. 175
Woodhouse, L.F. 2405
Woods, J.T. 3735
Worobiec, A. 345
Worthy, D. 2553
Wu, T.-C. 1993
Wu, T.-L. 403
Wu, Y. 4907
Wu, Y.-S. 1921

Xiao, H.-Y. 5121
Xie, Z. 4977
Xing, G. 4977
Xu, J. 161
Xu, Y. 5025, 5819
Xuan, J. 4863

Yabuki, S. 5159
Yadav, A.K. 1901
Yahagi, T. 1531
Yamamoto, K. 2027
Yamartino, R.J. 2263
Yan, Y. 3351
Yanagisawa, F. 5159
Yang, C.-J. 1921

Yang, J. 2523
Yang, K.-L. 3403
Yang, X. 4517
Yang, Y.-J. 2405
Yanosky, J.D. 107
Yao, X. 2099, 4223
Yarwood, G. 3321, 4991
Yazawa, K. 4985
Ye, B. 4223
Yeo, H.-G. 5437
Yeung, W.C. 3601
Yi, J. 4851
Yi, S.-M. 5449
Yi, S.M. 5491
Yli-Tuomi, T. 4057
Yokouchi, Y. 4985
Yonemura, S. 2061
Yonge, D. 1799
Yoo, J.-I. 5063
Young, L.-H. 477
Young, M.A. 5729
Yu, J. 5081
Yu, X. 161
Yue, Z.W. 5751
Yuen, S.T.S. 741
Yun, H.-J. 5449
Zabiegała, B. 2907

Zakaria, M.P. 611
Zappoli, S. 5097
Zawar-Reza, P. 3339
Zeman, Z. 353
Zemba, S.G. 2263
Zemmelink, H.J. 911, 5709
Zenobi, R. 801
Zerefos, C. 5355
Zetzsch, C. 4627
Zhang, B.-N. 4211
Zhang, D. 3351
Zhang, H. 835, 847
Zhang, K.M. 1863
Zhang, L. 537, 4787
Zhang, R. 1509
Zhang, X.Y. 4189
Zhang, Y. 1951, 5025
Zhang, Y.-H. 5853
Zhao, J. 161
Zhilinskaya, E. 939
Zhou, X. 2225, 2663, 2707, 2733
Zhu, R. 4977
Zhu, Y. 3939, 4323
Ziomas, I. 5355
Zlatev, Z. 4145
Zou, S.C. 1259, 2039, 5831
Zucchiatti, A. 899

KEYWORD INDEX

- 1-propanol 149
¹⁵N 4069
²²²Rn (radon) 2257
3-Nitrobenzanthrone 3591
 α,β -hopanes 4023
Abatement strategies 5417
Acetaldehyde 2609, 2733, 2743, 3195, 3495
Acetic acid 2513, 3909
Acetone 2609, 2733, 2743
Acid deposition 1379, 1569, S1569, 1649, 4251
Acid gases 1661
Acid neutralizing capacity 1589, S1589
Acid rain 503, 1051, 1577, S1577, 1875, 2397, 2867, 5983
Acidic deposition 1051, 1589, S1589, 1631
Acidic precipitation 3505
Acidification 1631, S1631
Acidity 503, 5277
Actinic flux 2471, 2563
Activated carbon injection 279
Active carbon filter 5661
Adirondack region 1051
Adsorption 2695, 2767, 5729
AEROBIC 3127, 3137
Aerodynamic particle sizer 107, 3939
Aerosol 287, 353, 765, 813, 1205, 1811, 4289, 4397, 5087, 5459, 5561, 5607, 5653, 6041
Aerosol characteristics 1077
Aerosol chemical composition 4541
Aerosol chemistry 5469, 5947
Aerosol dynamics 583, 5897
Aerosol formation 521, 1821
Aerosol liquid water mass 1883
Aerosol model 1863
Aerosol monitoring 1853, 5049
Aerosol number distribution 1863
Aerosol optical properties 5049
Aerosol optical thickness 1531
Aerosol particles 2427, 3963, 4103, 5783
Aerosol pollution 4037
Aerosol sampling 107
Aerosol size distributions 1863, 1979, 2349
Aerosol spectrum 391
Aerosol water mass 1521
Aerosols 611, 939, 2683, 3101, 3137, 3161, 3591, 3721, 5479
Aethalometer 1287
African aerosol 2447
Aggregation process 5653
Agricultural cropland 917
Agricultural greenhouse gas 4663
Agricultural soil 4309
Agriculture 1087, 3309
Air 5637
Air emissions 5377
Air exchange rate 1769
Air mass back trajectories 3089
Air mass trajectories 5343
Air masses 2535
Air monitoring data 1783
Air particles 949
Air pollutants 1287
Air pollution 157, 249, 287, 299, 353, 511, 773, 1309, 2121, 2187, 2237, 2933, 3161, 3173, 3659, 4133, 4145
Air pollution and convection 727
Air pollution dispersion 3339
Air pollution in complex terrain 727
Air pollution in Izmir 5841
Air pollution meteorology 4541
Air pollution modelling 873, 2165, 2297, 4707, 4717, 5417
Air pollution prediction 4555
Air pollution study 2215
Air pollution transport 3745
Air quality 1025, 1733, 2297, 2383, 2943, 3009, 3699, 3843, 4133, 5323, 5405
Air quality assessment 3021
Air quality management 3339
Air quality modeling 561, 4649, 5687
Air quality models 3917
Air quality monitoring 975, 2901, 5861
Air quality network 1349
Air quality standards 1363
Air quality-monitoring network 3403
Air sampling 911, 1421
Air speed 1811
Air temperature 2319
Air toxics 1783, 3629, 3643
Air trajectories 2641
Air-borne measurements S61
Air-conditioner 5443
Air-pollutant concentrations 591
Air-pollution control devices 781
Air-pollution episode in Hong Kong 591
Air-quality modelling 537
Air/soil exchange 835
Airborne culturable bacteria 4385
Airborne culturable fungi 4385
Airborne heavy metals 5841
Airborne metals 2955
Airborne particles 239, 3583, 4375
Aircraft exhaust 1821
Aircraft measurements 3745
Airflow 5697
Airflow modelling 3339
AIRMoN 5197
Air-snow exchange 2619, 2779
Air-snow transfer 2789
Air-water gas exchange 1707
Albedo 713
Alcohols 2573
Aldehydes 1941, 3973, 4823, 5277
ALERT2000 2573, 2585, 2609
Aliphatic aldehydes 3231
Aliphatic hydrocarbons 4023
Alkalinity 2881

- Alkene ozonolysis 571
Alkenes 2671
Alkyl nitrates 2671
Allergy 5443
Alternative fuels 403, 753
Aluminum 1589, S1589
Amazonia 2427
Ambient air 2375
Ambient air concentrations 5645
Ambient concentrations 4023
Ambient data analysis 315
Ambient lead 5549
Ambient measurements 1173
Ames assay 5627
Ammonia 441, 1087, 1111, 1475, 1799, 2965, 3267, 3485, 5385, 5619
Ammonium 1379, 4687, 5671
Ammonium products 4189
Ammonium sulfate and carbonaceous particles 4125
Analytical error 1783
Analytical model 3709
Analytical transmission electron microscopy 5365
Angstrom coefficient 1249
Angstrom exponent 1249
Annular denuder system 4357
Annular denuders 5385
Antarctica 765, 4977
Anthropogenic 663
Anthropogenic aerosol 4367
Anthropogenic components 5159
Anthropogenic emissions S61, 81, 5235
Anthropogenic S109
Antimony 4735
AOT40 1013
Apoplast 2965
Appalachian 1611, S1611
Aqueous phase 5897
Aqueous solubility 1843
Arctic 2563, 2663, 2683, 2707
Arctic boundary layer 2523, 2535, 2629
Arctic chemistry 2553, 2743
Arctic haze 1041
Arctic regions 5299
Area of representativeness 391
Armenia 1421
Aromatic hydrocarbons 5141, 5355
Artificial intelligence 561
Artificial lung 441
Asia 4251, 4895
Asian dust 3413, 5159
Asian dust storm 4569
ASOS 3321
Asymptotic expansions 5719
Atmosphere 1569, 2225, 2427, 3759, 5267
Atmosphere/surface exchange 847
Atmosphere-biosphere exchange 77
Atmosphere-surface exchange 5993
Atmosphere S1569
Atmospheric 5709
Atmospheric aerosols 345, 435, 1941, 5235, 5427, 5877, 5937
Atmospheric boundary layer 1453, 2049, 2171
Atmospheric chemistry 825, 2721, 3659
Atmospheric concentration 4517
Atmospheric contamination 881
Atmospheric deposition 1051, 1599, S1599, 1619, 2309, 4069, 4529
Atmospheric diffusion 4757
Atmospheric dispersion 1147, 1559, 4577
Atmospheric electricity 4037
Atmospheric fate 813
Atmospheric loading 2309
Atmospheric mass spectrometry 2721
Atmospheric mercury 2135, 3735
Atmospheric modeling 5719
Atmospheric nitrate and ammonium 5783
Atmospheric nitrogen 1661
Atmospheric PAHs 611
Atmospheric particulate matter 307
Atmospheric particulates 2985
Atmospheric photochemistry 3685
Atmospheric pollution 5245
Atmospheric reactions 4347
Atmospheric stability 3461, 5645, 5697
Atmospheric static stability 2535
Atmospheric surface layer 5011
Atmospheric turbidity 1249
Atmospheric turbulence 4649
Augsburg S7
Australia 4965
Australian emissions 753
Automated gas chromatographic system 3041
Automatic aerosol sampler 1221
Automatic measurement system 441
Automobiles 1655
Automotive emission 1475
Automotive exhaust 1475
Automotive sources 1173
Averaging time 2165

Background 2459, 3413, 5267
Background atmospheric concentrations 2147
Backward trajectories 5517
Backward trajectory 385, 3445
Balloon vertical profiling 2595
Bangkok 2027, 4211
BC 1979
Below-cloud processes 5121
Below-cloud scavenging 5245, 5719
Benzene 651, 2433, 3495, 3843, 5141, 6015
Benzene emission factors 4745
Benzo(a)pyrene 4617
Benzoquinones 3685
Berlin-Brandenburg 2187
Big-leaf model 537
Bio-mass 2447
Bioaccessible fraction 3583
Bioaerosols 889, 5437, 6031
Biofiltration 5501
Biofuels 699
Biogenic emissions 2201, 3217, 3321, 4895, 5221, 5687, 5819

- Biogenic hydrocarbons 3127, 5221
Biogenic VOC emissions 3147
Biogenic VOCs 3931
Biogenic volatile organic compounds 3793
Biogeochemical cycling 835, 847
Biogeochemical sulfur cycle 5131
Biogeochemistry 5207
Biomass burning 385, 825, 2061, 2831
Biomass fuel 5627
Biomonitoring 1163, 1611, S1611, 4069
Bioreactor 741
Biosolids 137, 5687
Black carbon 465, 699, 1553, 2447, 3183, 4323, 4479
Black smoke 5343
Bootstrap 5607
Boundary layer 603, 835, 1655, 2595, 2641, 4929
Boundary layer depth 3203
Box models 629, 873, 2831, 4125
Brake linings 4735
Branch enclosure 4441
BRAVO 5807
Brazil 2405, 2427
Brewer spectrophotometer 2003
Brick-kilns 677
Bromine 2721
Bromine chemistry 2491
Bromine oxide 2481
Bryophyte 1611, S1611
BTX 4823
Building 5527
Building effects 4577, 5073
Building material 6031
Bulk deposition 2891, 5395, 5983
Bulk precipitation 361
Buoyancy 3989, 5037
Buoyant forcing 2245
BVOC 4265, 5221
- C1-C2 monocarboxylic acids 1553
C2-C4 dicarboxylic acids 1553
C₂-C₉ Hydrocarbons 1969
C4 plants 2427
CAFOs 5619
Calcium 1645
Calcium depletion 1589, S1589
Calcium S1645
Calibration 45
California 4503
California air quality 2327
California deserts 1099
CALMET 3531
CALPUFF 3531
Canary Islands 5861
Cancer risk 4617
Canopy 5021
Canopy model 5011
Canyon-like geometry 3601
Carbon dioxide 741, 1655, 1929, 2799, 3059, 5517, 5887
Carbon isotopes 5405
Carbon monoxide S95, 2831, 3127, 4323, 5953, 6001
Carbon monoxide diurnal cycle 1769
Carbon nanoparticles 3963, 5877
Carbon preference index 477
Carbon stable isotope 2427
Carbonaceous aerosols 677, 1267, 5103
Carbonaceous species 1911
Carbonyl compounds 57, 1259
Carbonyl sulfide 4679
Carboxylic acids 3137, 5277
Carcinogen 651
Carpet 1749
Cascade inertial impactor 31, 31
CASTNet 4687
Catalyst 2955
Catalytic converter 3495
CB-4 model 4877
CCN 1827
Central Asia 4941
Central Chile 3819
Central Europe 4125
Ceratonia siliqua 3931
CFD 9, 3951
CFX commercial code implementation 3601, 3615
Characteristic emission ratios S61
Charcoal denuder 3851
Charging 899
Chassis dynamometer 1475
Chemical composition 5427
Chemical modelling 1737
Chemical speciation 773
Chemical species concentration 1921
Chemical transport model 1691
Chemions 2979
Chemistry 2337, 3973
Chesapeake Bay 2281
Chicago 1205
China 4863
China provinces 1309
Chlorine 4997, 5289
CIE erythema 2003
Circuit model 411
City climate 1655
Cladium jamaicense 5207
Cladosporium 5443
Classification and regression trees 2817
Clean air zone 3339
Cleaner fuels 315, 331
Climatology 1619, 4397
Climatology S1619
Closed sanitary landfill 4385
Cloud chemistry 31
Cloud collector 31, 31
Cloud environment 3881
Cloud water 1553
Cloud-to-ground lightning 2809
Cluster analyses 1123
Cluster analysis 3851
Cluster and factor analysis 3089
Cluster ions 1757
CO 255
CO₂ 5405
CO 5831, 5927

- CO and NO_x emissions 533
Coachella valley 1099
Coagulation 583
Coal burning 3519
Coal pile 2171
Coal power plant 2397
Coarse and fine particulate matter 3473
Coarse fraction 1951
Coarse particles 1921
Coastal boundary layer 5311
Coastal dispersion 2997
Coastal fumigation 2933
Coastal lows 3829
Coastal marine atmosphere 5783
Coastal O₃ 1277
Coastal site 603
Cold trap 5509
Collection efficiency 31, 31, 889
Collocated sites 5197
Combustion 2979
Commuter exposure 3363, 5831
Commuting 6015
Comparison 4687
Compensation point 2965
Complex terrain in Hong Kong 2013
Complex topography 3745
Composition 89
Compound-specific $\delta^{13}\text{C}$ 611
Computational fluid dynamics 45
Computational modeling 5561
Concentration 2245, 3909, 5671
Concentration distributions 2165
Concentration fluctuation 5527
Concentration gradients 9
Concentration modelling 157
Concentration PDFs 1793
Concentrations 2925
Conceptual model 465
Concrete 5661
Condensation nucleus measurements 727
Conductivity 1299
Conifer gas exchange 3277
Conservation 4103
Conservation equations 5037
Constant Level Balloons 483
Contaminant concentration 4405
Continuous monitors 3939
Contributed concentration 411, 421
Convective boundary layer 4707
Convective condition 2071
Convective transport 4491
Convergence zones 591
Conversion efficiency 4745
Cooking stove 5627
Copper 5637
Copper smelters 3819
Corpus Christi Bay 1707
Correlation 1259, 3031, 3173
Correlation analysis 4223, 5509
CO S19
Córdoba 287
Criegee intermediate 3299
Criteria pollutants 3779
Critical evaluation 1323
Critical levels 1013
Critical loads 1111
Cross-correlation 391
Crosswind-integrated concentration 97
Crustal source 5365
Cryo-focus 6051
CTAMP 2049
Cut-off low 449, 1123
Cuvette 19
Cyclic perfluorocarbons 2147
Czech Republic 353

Dairy 1799
Danish Eulerian Model 4145
Data analysis 2237
Data intercomparison 5197
Day of the week 2319
De novo benzene formation 4745
Deep sea 5581
Deflation module 503
Degradation 5581
Degradation mechanisms 4725
Deliquescence 5909
Deliquescence relative humidity 1521
Dendrochemistry 5887
Density 2753
Denuders 1661
Depletion 3173
Depletion (MDE) 5267
Deposition 1465, 1811, 3203, 4201, 4679, 5459, 5595, 5741
Deposition bulk 4015
Deposition dry 19
Deposition fluxes 4801, 5783
Deposition modeling 619
Deposition rates 4015
Deposition velocity 537, 1749, 5661, 5671, 5841
Deposition wet 5197
Detector 2257
Deterministic models 2083
Dew 293
Diagnostic wind field 201
Diamond dust 2767
Dicarboxylic acids 1941, 4223, 4479
Diesel 4077, 4323
Diesel exhaust 1737
Diffusion 2695, 2789, 4405, 5527, 5697
Diffusion of HNO₃ 2707
Diffusion scrubber 1241
Dihydroxybenzenes 3685
Dilution 4577
Dimethyl sulfide 4679
Dimethyl sulphide 911, 5709
Dioxin concentrations 2901
Dioxin emission 279
Dioxins/furans 1407
Direct approach 5961
Direct-acting mutagen 5627

- Discriminant analyses 1123
Dispersion 97, 1025, 1137, 1349, 3709, 4635
Dispersion model 1195, 2071, 3203, 4057
Dispersion modeling 3699
Dispersion modelling 5037
Distribution 3413, 5115
Diurnal PM patterns 1675
Diurnal variations 1921, 3473 5449, 5509
Diurnal variation of pollution 4375
DMPS 4115
DMS 911, 4627, 5131
DMSO 4627
DNPH 3867
DOAS 1799, 2481, 5355
DOC 3557
Downward mixing 2049
Driving cycle 651, 3495, 5759
Dry deposition 537, 1569, 1577, 1649, 1707, 2049, 3267,
3277, 4517, 4787, 5671, 5841
Dry deposition flux 5491
Dry deposition velocity 5449
Dry deposition S1569, 1577, 1649
Dust aerosols 3351, 5185
Dust emission 4173
Dust source region 4863
Dust storm 421, 3403
DustTrak Aerosol Monitor107
Dynamic flow-through chamber system 1087
Dynamic sub-grid scale model 3601, 3615

EANET 4159
Earth systems modeling 3659
East Asia 385, 4235
Eastern Mediterranean 1337
Eastern mediterranean atmosphere 929
Economic change 4133
Economic models 3659
Ecosystem recovery 1631, S1631
EDAS 3321
Eddy covariance 77, 791
Eddy diffusivity 67, 67
Edible oils 4839
EDXA 881
Efflorescence 2349
Efflorescence relative humidity 1521
Eigen-function expansion 97
Electron microprobe 5235
Electron microscopy 3899
Electron probe microanalysis 2207
Elemental carbon 1205, 1267, 4463, 5335
Elemental characterisation 4277
Elemental composition 435, 4453
Elemental ratios 4453
Elemental species 265
Elements 4189
Elements and ions 1299
Emission 1407, 1465, 2433, 2867, 4201, 4309, 4679,
4919, 5917, 6001
Emission capacities 4265
Emission controls 1631, S1631
Emission database for global atmospheric research 4877
Emission evaluation S33
Emission factors 781, 1993, 4735, 5063
Emission inventories S1, 1
Emission inventory S81, 109, 1195, 1309, 3779
Emission model comparison 5177
Emission modeling S1
Emission modelling 157
Emission rate 1475, 4863
Emission reductions 4145
Emission scenarios 1309
Emission sources of PAHs 5491
Emission validation S1
Emissions 213, 975
Emission S19, 19, 109
Emissions 3203, 5289, 5619
Emissions control 5323
Emissions inventory 3531, 5759
Empirical modeling 5953
Empirical radical concentration 4951
Energy balance 713
Energy recovery 741
Energy strategy 3059
Engine performance 403
Enrichment 2907
Enrichment factors 3803, 5841
Ensembles 3021
ENSO 2061
Entrainment 4603
Environmental control of emissions 3147
Environmental geochemistry 5887
Environmental scanning electron microscopy 5909
Environmental trace analysis 2375
Episode 1721
Episode representativeness 2817
Episode selection 2817
Episodes 3375
Episodic acidification 1589, S1589
EPR 939
Equilibrium 4299
Erythema 287
Estonia 4133
Ethanol 403
Ethanol blended fuel 3495
Ethene 2585
Ethylbenzene 2433
Eulerian air quality model 4173
Eulerian dispersion models 67
Eurasia 1041
European database 3309
European exposure 963
European Union Daughter Directive 1431
Evaluation S81, 81, 2135
Evaporation 2099, 4357
Everglades 5207
Experimental design 3299
EXPOLIS 2109, 3031
Exposure 1, 255, 1769, 3031, 4077, 4593, 5561, 6015
Exposure model 2109
Extinction coefficient 1249
Extraction residue 639
Extreme value 4405

- Factor analysis 4453, 5795
 Falling raindrops 5719
 Farms 5619
 Fe³⁺ 939
 Federal reference method 107
 Fence 1453
 Field experiments 4811
 Field measurement 1195
 Field observation 4757
 Field program 561
 Field studies of wake turbulence and data analysis 4337
 Field study 4577, 5595
 Filter pack 4687
 Filter sampling 2985
 Fine fraction 1951
 Fine particles 477, 773, 1921, 3059, 4593, 5853
 Fine particulate aerosols 4277
 Fine particulate matter 4057
 Finite element 5011
 Fire 3779
 Firn/air relationship 1221
 Flammable releases 1183
 Flow and dispersion 527
 FLUMOB 2187, 4001
 Fluorine 5289
 Flux 2891, 3413, 5207, 5395
 Fly ash 677
 Fog 353
 Fog chemistry 31
 Foliose 5637
 Food contamination 4839
 Food-processing plant 4801
 Forest 3137
 Forest biomass 699
 Forest edge 5595
 Forest site 3127
 Forests 1233
 Formaldehyde 1337, 1929, 2553, 2619, 2695, 2733, 3195, 3495, 4767, 5543
 Formate 1337
 Formic acid 2513, 3909
 Fossil fuel combustion 2831
 Fossil fuel emissions 1577, S1577
 Fourier transform infrared spectroscopy 1833
 Fractal 5653
 Fractionation 765
 Free troposphere 5469
 Freeways 4323
 Frequency 2925
 Freshwater marshes 5149
 Fresno 465
 Friction velocity 1901
 Fructose 5637
Fucus spiralis (spiral wrack) 5311
 Fuel-based emission factor 5177
 Fugitive emission sources 4851
 Fungi 5501
 Furnishings 1811
 Gas chromatography 3429
 Gas emission 5971
 Gas flux 1087
 Gas transfer 5709
 Gas-particle conversion 2099
 Gas-phase kinetics 2201
 Gas-phase reactions 3231
 Gaseous dimethylsulfide 5131
 Gaseous DMS 929
 Gaseous elemental mercury 2653
 Gaseous species 537
 Gas-particle partitioning 4023
 Gaussian dispersion 511
 Gaussian model S7, 3021
 Gaussian plume model S109, 3049
 GC-TCD measurement system 1883
 GC-MS 3009
 Geographical Information System (GIS) 987
 GIS 2109
 Global and diffuse solar irradiance 3173
 Global Hg chemodynamics 835
 Global loss 5581
 GloBEIS 3321
 GMS VISSR 1531
 Gradient 2629
 Grassland 917
 Great lakes 3735
 Greenhouse gas emissions 753
 Greenhouse gas fluxes 1833
 Greenhouse gases 213, 917, 3659
 Greenland 2619
 Greenland ice sheet 5365
 Grid resolution 4649
 Ground level concentration 2071, 4757
 Ground-based and aircraft measurements S33
 Ground-based measurements S61
 Growth 1875
 Growth form 5637
 Haloacetic acid 1233
 Halogen 4289
 Halogen chemistry 2481
 Halogen compounds 5299
 Hazardous air pollutants 3629, 3643
 Hazardous air pollutants (HAPs) 1783
 HCHO/CO S61
 HCHO/NO_x S61
 HCl 1241
 Health effects 801, 1063, 5561
 Heat moisture solute fluxes 5021
 Heat-treatment 1763
 Heavy metals 239, 1465, 2653, 3071, 3113, 3583, 5063, 6001
 Heavy rainfalls 5121
 Heavy vehicles 753
 Hebdomadal cycles 999
 Heterogeneous 4289
 Heterogeneous chemistry 5729, 5947
 Heterogeneous reactions 4627
 Hg 881
 High Alpine aerosol chemistry 1221
 High-rise apartment buildings 5645
 Higher order concentration moment modelling 4717
 Highway 255

- Himalayan weather 727
Historical measurements 4037
HNO₃ 1241, 1241, 2225
HO₂ radical 4929
HO₂NO₂ 2225
Homes 225, 265
Homogeneous materials 5031
Homologue profile 1041
Hong Kong 225, 1259, 2099
HONO 2225, 2501, 2629
Horizontal profile 4907
Hourly emissions 5011, 5021
Houston 4767
HO_x 2523
HPLC 2225
HPLC analysis 5509
HULIS 1827
Human exposure 3255
Humic-like substances 5103
Hydrocarbon measurements 581, 975
Hydrocarbons 5549
Hydrogen chloride 765
Hydrogen peroxide 2619
Hydroxyl radicals 3231, 3973, 4347, 5581
Hygroscopic aerosol 1883
Hygroscopy 5909
Hyphomycetes 5437
HYSPLIT 391
- IC 1299
Ice 2545, 2695
Ice core 3351
Ice photochemistry 2523
Impactor 3963, 4299
In-cloud scavenging 5245
INAA 1951
Incinerator 5063
Incomplete mixing 9
Incorporation processes 2609
Indirect approach 5961
Individual particle analysis 5909
INDOEX 677, 699
Indonesian forest fire 1531
Indoor 1811
Indoor air 571, 1543, 1749, 1763
Indoor air pollution 1769
Indoor air quality 225, 265, 1929, 3973, 4103, 5543
Indoor chemistry 9
Indoor particles 5459
Indoor pollution 801
Indoor/outdoor PM concentrations 1099
Indoor/outdoor relationship 1543
Inductively coupled plasma atomic emission spectrometry 639, 773
Industrial area 4453
Infiltrated ventpipes 4919
Information threshold 999
Inhalation exposure 3583
Inlet tubing 1241
Inorganic aerosols 2349
Inorganic speciation 899
- Interaction 1241
Intercomparison 1853, 3881
Internal boundary layer 2013
Interpolation 5953
Inventory 917, 1407
Inventory verification 4965
Inverse approach 411
Inversion break-up fumigation 2997
Ion balance 3519
Ion chromatography 639
Ionic composition 2397
Ions 1979, 4941
IPCC 917
Iron oxides 89
Irradiance 2471
ISCST3 model 3461
Island of Gozo 1391
Isoprene 3321, 3793, 3867, 4265, 4895, 5819
Isotope composition 5121
Isotopic composition 2831
- J*(NO₂) 2471
Japan 2027
Jet engine exhaust 1757
Jet stream 449, 2943
Jets 1183
- K*-mean clustering technique 4951
Kalman filter 4965
Kelvin effect 1863
Kerosene 4777
Ketones 4823
Kinematic back-trajectory analysis 3339
Kinetic study 3231
k- ϵ turbulence models 861
KOSA 5469
Krusne Hory 3375
Kunnes River valley 4941
- La selva biological station 3793
Labile fraction 3583
Lagrangian 511
Lagrangian dispersion 483
Lagrangian models 1147, 2943, 4251
Lagrangian particle dispersion model 4635
Lagrangian particle model 4001
Lagrangian stochastic model 3049
Lagrangian stochastic particle model 1559
Lake Michigan 1205
Lake Tahoe Basin 3277
LaMM5 4001
Land cover 3321, 3779
Land use 4895
Land-breeze and photochemistry 603
Landfill 741, 2433, 4919
Land-lake breeze effect 2297
Langevin equations 4649
Large eddy simulation 4801, 5527
Large point sources 213
Large-scale models 4145
Laser photolysis 3231

- Lateral diffusion 3049
Lead 3759, 5405
Lead isotopes 1421
Lead-rich particles 5235
Leaded gasoline 1421
Leaf cuvette 3147
Leaf litter 4679
Leisure area 5927
Levoglucosan 3009
Lichens 3759, 5637
LIDAR 2853, 5087
Lidar 3989
Life-cycle 753
Lifetime 5971
Light absorption coefficient 161
Light element analysis 2207
Light rainfalls 5121
Light scattering coefficient 161
Liquid chromatography-gas chromatography 2985
Liquid CO₂ 6051
Liquid collection 889
Livestock slurry 3309
Local estimates 5377
Local forcings 2013
Local ozone contribution 3565
Local pollutants 213
Local variations 201
Loess 5159
Lognormal distribution 491
London 1431
Long Island Sound 4517
Long range transport 391, 1363, 3217
Long-path spectroscopy 1799
Long-range transport 175, 385, 511, 4235, 4569, 5469, 5517, 5607, 6051
Long-range transport model 4045
Long-term simulation 4159
Long-term trend 5267
Longitudinal study 1733
Loss 1241
Low wind 2071
Low wind dispersion 1901
Low-level jet 5771
LPG 4777
Lubricating oil 4839
Lumping 873

m-Xylene 3495
Madrid 5323
Magnesium 1645, S1645
Major anions 3089
Major cations 3089
Major ions 3351
Malonate 2099
Malonic acid 2491
Malta 1391
Manganese 5543
Mangrove forest 629
MAP3S 3767
Mapping 1013
Marine 5709
Marine aerosols 4479
Marine atmosphere 3217, 4367
Marine boundary layer 4289
Maritime origin 5121
Mass accommodation coefficient 4357
Mass balance S19, 5543
Mass balance technique S53
Mass budgets S33
Mass size distribution 5853
Mass spectrometry 1821
Mass transfer coefficient 3267
Mass-transfer model 1749
Mathematical model 97, 1901, 5031
Mathematical modeling 3721
Mean concentration field 4717
Mean concentration model 4707
Mean diurnal variations S61
Meandering plume model 4717
Measurement S19, 19, 791, 2225, 2459, 4299, 5917
Measurement artifact 4357
Measurement bias 4687
Measurement campaign 4057
Medical waste incinerator 781
Mediterranean 1391, 2881, 3101
Mediterranean vegetation 3147
Mercury 663, 1599, 4919, 5267
Mercury chemistry 2135
Mercury depletion events 2653
Mercury deposition 2135
Mercury species 3881
Mercury S1599
Mesoscale 1349
Mesoscale flows 5771
Mesoscale meteorology 713
Mesoscale model 2933
Mesoscale modelling 4491
Mesoscale transport 1111
Metalloids 1499
Metals 1163, 1675, 4069, 5637
Metamorphism 2753, 2767
Meteorological conditions 1543
Meteorological data 2121
Meteorological influence 3565
Meteorological modeling 1063
Meteorology 3375, 3473, 4211
Meteorology forecast 4555
Methane 741, 4965, 4977
Methane emission 5149
Methane flux 1833
Methane isotopes 4663
Method of least squares 491
Method of moments 491
Methyl bromide 2671
Methyl iodide 2671
Methylvinylketone 3867
Metropolitan Hong Kong 2039
Mexico 2367
Mexico city 2297, 3843
Micro analysis techniques 345
Microbial activity 4679
Microcrystals 5877

- Microenvironments 1
Micrometeorology 629, 3989, 4309, 4663
Microtrips 5759
Mineral dust 89, 4569
Mineral paraffins 4839
Mineral particles 5365
MIR 1993
Missing data 5953
Mitigation policy 213
Mixed salts 1521
Mixing height 3461, 3699
Mixture 4405
MM5 model 4173
 Mn^{2+} 939
Mobile measurements 5569
Mobile sources 299, 5177
Mobilization 3413
Modal events 5759
Model 4015, 4299
Model comparison 2997
Model evaluation 1793, 5037, 5087
Model improvements S53
Model initialisation 1147
Model intercomparison 175
Model limitations 2083
Model sensitivity 2121
Model simulation 1901
Modeling 1631, S1631, 2779, 5819
Modelling 1025, 1349
Model S19, 19
Modified Gaussian model 2933
Moisture 5443
Moisture damage 6031
Mold 5437, 5443
Molecular markers 5751
Moment method 5459
Monitoring 2841, 3255, 4133
Monitoring network efficiency 3545
Monitoring networks 999
Monoterpene 3299, 4265, 4929
Monoterpene emission 4441
Monte Carlo simulation 3659
Monte Carlo uncertainty 1793
Morphology 1875
Moss 1465
Mosses 1163, 1611, S1611
Motor vehicle emissions 4375
Motorcycle 651
MOUDI 3939
Mountain-valley winds 727
MPI 1559
MSA 929, 4627
MSIA 4627
 MS^{-} 5131
Mt. Everest 3351
Multi spectrum classification 1531
Multi-emission sources and sinks 5031
Multi-flue chimney 3951
Multilayer perceptron 2083
Multiphase chemistry 873
Multiple regression 3505
Multivariate receptor model 4541
Multivariate analysis 57
Multivariate regression 1661
Multivariate tools 3071
Municipal solid waste incineration 239
Municipal waste incineration 279
Museum 4103
Museum environment 3909
Mutagenicity 307, 4617
n-alk-1-enes 3851
n-Alkanes 5311
 Na_2CO_3 aerosol 1883
 $NaCl$ - Na_2SO_4 mixed aerosols 1883
NAME 4425
Nanoparticles 1499, 5569, 5653
NAO 2881
National air emission inventory 4089
National atmospheric deposition program/national trends network 5197
National Center for Environmental Protection (NCEP) reanalysis data 4951
National emission inventories 5377
Natural contributions 3113
Near-highway dispersion models 4337
Negative CI 1757
Nesting 1691
Net European ecosystem exchange 2799
Neural networks 4555
New York-New Jersey harbour atmosphere 1077
New Zealand 3557, 4663
Newton-Cotes integration 583
 NH_3 4201
 NH_3 emission 619
 NH_4^{+} 4201
 NH_4NO_3 4357
NICI-MS 2147
Nighttime chemistry 825
Nighttime chemistry 4929
Nitrate 465, 503, 1379, 2881, 3505, 4159, 4189, 4223, 4687, 5671
Nitrate aerosol 4425
Nitrate field 1323
Nitrate fluxes 5299
Nitrate ion 2663
Nitrate photolysis 2629
Nitrate radical 521, 825
Nitric acid 2629, 3267, 3485, 4687, 5299, 5671, 5729, 5993
Nitric oxide 137, 5687
Nitrite 293
Nitro-PAH 4617
Nitrogen 987, 1577, 1619, 4517
Nitrogen cycling 137, 2563, 4529
Nitrogen deposition 5983
Nitrogen dioxide 1443, 1733, 2109, 4593, 5729
Nitrogen isotopes 4069
Nitrogen oxides 299, 1111, 1543, 1569, 1577, 1649, 2501, 2563, 2629, 2707, 3059, 3545
Nitrogen oxides (NO_x) 4159
Nitrogen oxides S1569, 1577, 1649
Nitrogen species 4951
Nitrogen stable isotope 2427

- Nitrogen S1577, 1619
Nitropolycyclic aromatic hydrocarbon 5535
Nitrous acid 293, 2629
Nitrous oxide 1833, 4977
NMHC emission profiles S61
NMHC/CO S61
NMHC/NO_x S61
NMHCs S109, 2585
NO 2501
NO₂ 2501
NO 5927
NO₂ 5927
NO₂ emission 619
NOAA AVHRR 1531
Non-episode 1721
Non-linear regression 2841
Non-methane hydrocarbons 1277, 3217
Non-methane hydrocarbons (NMHC) 3041
Non-methane volatile organic compounds (NMVOC) 1309
Non-sea-salt sulfate 1337
Non-stomatal uptake 4787
Nonmethane hydrocarbons 1173
Nonparametric regression 2237
North America 3759
North temperate zonal belt 5971
Northeastern United States 1645, S1645
Northwest Pacific 5469
NO_x S19, 1277, 1431, 2327, 2471, 2663
NO_x control 4045
NO_x inhibition effect 4649
nss-SO₄²⁻ 929
Nuclepore filter 899
Number size distribution 2215
Numerical model 503, 3277
Numerical modeling 2135, 3709, 5245
Numerical modelling 3951
Numerical models 2083, 3881
Numerical results 4811
Numerical simulations S33, 2013, 2997, 5697
Nutrients 2309
- O₃ 5927
OC 1979
OC/EC method 1287
Odor assessment 2165
OH 4627
OH radical kinetics 5947
OH radical reaction 149
OH radicals 571, 1895, 2281, 3299, 3685
Oil-shale fly ash 813
Olea europaea 3931
On-line chemical ionization mass spectrometry 4745
On-line chemistry 2187
Online-coupling 4001
OpenMP 1559
Optimum regression equation 619
Organic acids 2683, 3557, 5897
Organic aerosol 1827, 3851, 5185, 5807
Organic carbon 1205, 1267, 1337, 1553, 3183, 5103
Organic compounds 161
Organic matter 699
- Organic nitrogen 5937
Organic polarity 5185
Organic pollutants 2907
Organic solubility 5185
Organic speciation 5751
Organochlorine pesticides 1707
Outdoor NO₂ concentration 4777
Oxalate 2099
Oxalic acid 2491
Oxidants 2523
Oxidation 1895, 2201
Oxidation products 521
Oxidized sulfur 3819, 3829
Oxygenated fuels 2405
Oxygenated hydrocarbons 2573
Oxygenated organic compounds 5311
Oxygenated polynuclear aromatic compounds 3851
Ozone 115, 149, 299, 385, 603, 999, 1349, 1391, 1749, 1875, 1957, 2327, 2535, 2779, 2841, 3101, 3137, 3545, 3699, 3721, 3973, 4289, 4347, 4787, 4997, 5087, 5671, 5687, 5741, 5819
Ozone absorption 287
Ozone and aerosols 449
Ozone concentration 3445
Ozone damage 4503
Ozone decomposition 5661
Ozone depletion 2481, 2535
Ozone deposition 2595, 2641
Ozone dry deposition 77
Ozone episodes 2817
Ozone exposure 4235
Ozone flux 449, 4503
Ozone formation 825, 3321, 3867
Ozone metrics 4503
Ozone model 1793
Ozone modelling 4725
Ozone pollution climate 4045
Ozone precursors 3041
Ozone spatial distribution 3445
Ozone transport 3565
Ozonesonde 2061
Ozonolysis reaction 4929
- p*-xylene 149
Pacific Ocean 2061
Packing materials 5501
PAH 1, 801, 2917, 3009, 4069, 4617, 4823
PAHs 57, 361, 781, 813, 2027, 2891, 4023, 4463, 5395
Paleolimnology 1599, S1599
Palmae 3793
PAN 825
Parallel computing 3917
Parallel processing 1559
Parameter estimation 115
Parameterisation 791
Parameterization 5719
Parcel-Grid modeling 4649
Particle 801, 1811, 6041
Particle concentrator 5185
Particle deposition 813, 4463
Particle nonsphericity 5479
Particle nucleation 521

- Particle number concentration 4375
Particle size distributions 1853, 4173, 4823, 4907, 5049, 5063, 5437, 5449, 5491
Particle sizes 5115, 5479, 6031
Particles 4735
Particulate 2853
Particulate emission 2207
Particulate matter 107, 249, 421, 1063, 2375, 2383, 3009, 3183, 3255, 3779, 4425, 4555, 5549, 5627
Particulate matter in air 4839
Particulates 3485
Partisol 3939
Partitioning 1843, 4015
Passive samplers 2907
PBDE 4015
PBL 2853
PCA 3735
PCBs 4023
PCDD/Fs 5115
PCDDs 4023
PCDFs 4023
PDF 4405
Peak concentrations 2165
Peak hour 651
Penguin dropping 4977
Pennsylvania 3767
Pentaclethra macroloba 3793
Perfluoromethylcyclohexanes 2147
Performance evaluation 201
Permeability 2789
Peroxyacetyl nitrate 2405
Peroxymethacrylic nitric anhydride (MPAN) 1895
Peroxypropionyl nitrate 2405
Persistence 5021
Persistent organic pollutants 1407
Personal exposure 963, 5335
Personal sampling 889
Pesticide 5917
Petroleum and chemical manufacturing industries 4851
pH 1299
pH variation 3089
Phase partitioning 5897
Phase separation 3963, 5877
Phenols 3685
Photo-oxidants 2841
Photo-oxidation 4627
Photochemical dispersion modelling 5323
Photochemical model 201
Photochemical modeling 4997
Photochemical oxidation 2917
Photochemical pollution 999, 4211
Photochemical production 3195
Photochemical reactions 1691
Photochemical reactivity 1969, 3195
Photochemical release 2707
Photochemical sink 5971
Photochemical smog 293
Photochemical source 3127, 5971
Photochemistry 2535, 2545, 2563, 4397, 5087
Photodegradation 3591, 5535
Photoelectric aerosol sensor 2027
Photolysis rates 4397
Photomultiplier 2257
Photooxidation 2491
Photosynthesis 5405
Photosynthetically active radiation (PAR) 5311
Physical adsorption 239
Physical modelling 4603
Physical-chemical properties 1041
PID 5221
Pinene 5501
Pinus pinea 4441
Pinus ponderosa 1875
Planetary boundary layer 67
Plume 511, 3951
Plume dispersion 2245, 3375
Plume rise 4603
Plume spread 3989
PM₁₀ 1, 265, 435
PM₁ 4907
PM data analysis 331
PM-10 1267, 1267, 1267
PM10 and PM2.5 aerosols 1299
PM_{2.5} 1, 161, 265, 435, 465, 677
PM2.5 composition 5751
PM2.5 particulate matter 1077
PM_{2.5} source apportionment 4541
PM_{7.2} 3583
PMH 3699
Polar atmospheric chemistry 2619
Polar sunrise 2481
Polar Sunrise Experiment 2000 2733, 2743
Pollutant concentration 3461
Pollutant emission preface 403
Pollutant transport 527, 1957
Pollution 791, 1137, 2955, 3759, 4251, 5637
Pollution dispersion 511
Pollution transport 4635
Polychlorinated biphenyls 371, 1407
Polychlorinated biphenyls (PCBs) 1707, 5581
Polycyclic aromatic compounds 3591
Polycyclic aromatic hydrocarbons 249, 307, 949, 2281, 2375, 2985, 5535
Polycyclic aromatic hydrocarbons (PAHs) 1707, 2383, 5627
Polynuclear aromatic hydrocarbons 3851
Population exposure 963, 2109
Porosity 1453, 2171
Positive and negative chemions 1821
Potassium 1645, S1645
Potential source contribution function 5607
Power plants 677, 1063
Precipitation 2337, 2891, 4529, 5783
Precipitation chemistry 1051, 3767, 5197, 5983
Precipitation days 3403
Precipitation dilution 3767
Precipitation rate 619
Precision 5671
Precision levels S7
Precursors 4211
Prediction of future pollution levels 4145
Primary pollutants 299, 315, 5385
Principal component analysis 949, 1123, 1721

- Principal component factor analysis 2917
 Probability distribution 3021
 Productivity of seawater 1337
 Project Prairie Grass 3049
 Public transportation modes 3363, 5831
 Puff method 5527
 Puff models 511
 Pyrolysis 2653
- Quality 157
 Quality assurance 1649, S1649
Quercus ilex 4441
Quercus ilex ilex 3931
Quercus ilex rotundifolia 3931
- Radiation 713
 Radiation transfer 2471
 Radiative transfer 2545
 Radicals 2481
 Radioactive aerosols 5595
 Radioactive discharges 3203
 Radioactive dispersion 2933
 Radiocarbon 4463
 Radiometer 2545
 Radionuclides 5595
 Rail 1
 Rain 353
 Rain scavenging 371
 Rainfall 2309, 3071
 Rainfall networks 5983
 Rainwater 1337, 2367, 2397, 5277, 5937
 Rainwater chemistry 2881
 Rainwater composition 3557
 Rainwater methanesulfonate 5131
 RAMMETX 3699
 RAMS 3531
 Random walk model 1559
 Rate coefficient 1895
 Reaction mechanism 4347
 Reaction-advection models 5719
 Reactive gaseous mercury 2653
 Reactive plume modeling 4649
 Receptor modeling 3803
 Receptor models 949, 1431, 5607
 Receptor site 1675
 Recycling 741
 Red-ox system 3881
 Reflectance 5335
 Reflectance spectrometry 89
 Refractive index 1853
 Regional acid deposition model 4877
 Regional air quality Eulerian model (RAQM) 4159
 Regional direct climate forcing 4125
 Regional dispersion modeling 3803
 Regional emission 4235
 Regional modeling 3819, 3829
 Regional pollution 3101
 Regression analysis 3473
 Regression models 987, 1543, 3031, 3767
 Regrowth 5877
 Relative humidity 3299, 5479, 5909
- Relative precision 3289
 Relative rate 149
 Relative rate method 5947
 Relative standard deviation 3289
 Relaxed eddy-accumulation 3793, 4309, 5021, 5993
 Remote continental aerosol particles 5049
 Remote sensing 2853, 5177, 5819
 Removal efficiency 781
 Renoxification 5741
 Residence time 663
 Residual layer 5771
 Respirable suspended particulate 1543
 Respiratory health 1733
 Respiratory uptake 3583
 Retene 2383
 Retrofit technology 279
 Retroplumes 4635
 Rime 353
 Ring test 157
 Risk 2955
 Risk assessment 4235, 5417
 Risk evaluation 1183
 Road traffic 2027, 2943, 4593
 Road transport 5377
 Roadside 57, 4057
 Roadside microenvironments 2039
 Roadside monitoring 1025
 ROADWAY-2 model and evaluation 4337
 Rocky Mountains 2337
 Room temperature 5543
 Ruminant methane 4663
 Rural aerosols 5569
 Rye grass (*Lolium perenne* L.) 2965
- Safety vents 1183
 Saharan dust 1363, 2881, 3089, 3101, 5861
 Sample stability 4529
 Sampling 5709
 Sampling artefacts 1323
 Sampling artifacts 2099, 4687
 Sampling error 1783
 Sand pile 1453
 Sandstorm 1951
 Savanna 4265
 Scanning electron microscopy 881, 3963, 5877
 Scanning mobility particle sizer 3939
 Scanning probe microscopy 5653
 SCAQS 2349
 Scattering 4397
 Scattering coefficient 1249
 Scavenging 2891
 Schools 6031
 Scots pine 19, 1763
 Screening method 2375
 Scrubber 1443
 Sea level pressure 3351
 Sea salt 2683, 3519, 4367
 Sea-breeze 603
 Sea-breeze circulation 3445
 Sea-salt 765
 Sea-salt particles 1241

- Sea-to-air flux 6051
Sea-land breezes 591, 2013
Season 3255
Seasonal compositions 1969
Seasonal cycle 5517
Seasonal distribution 2383
Seasonal trend 5449
Seasonal variation 1259, 3485, 4223, 4265, 4385, 5395, 5509, 5853
Seasonality 5365
Secondary aerosols 1911
Secondary formation 4767
Secondary organic aerosol 1287, 3183, 5897
Secondary pollutants 4951
Secondary-formed particles 435
Sediment 1599, S1599
Schmel-Hodgson model 5449
SEM-EDS 1721
Semi-volatile organic compounds 1205
Semi-volatile species 2099
Semivariogram 1163
Sensitive population subgroup 1769
Sensitivity 2257
Sensitivity analysis 115
Sensitivity test 421
SF₆ 2789
SF₆ measurements (FTIR, DOAS) 5927
Sierra Nevada 4503
Signal-noise ratio 19
Similarity law 4757
Simple box model 4201
Simulated Asian mineral dust certified reference material (CJ-2) 4569
Simulation 561
Simulation chamber experiments 1737
Simultaneous measurement 441
Single particle analysis 2207, 5235
Single salt 1521
Size distribution 1267, 4115, 4367
Size exclusion chromatography 5103
Size-fractionated PM₁₀ 1675
Small airway disease 1733
Smelter emissions 3803
Smoke aerosols 825
Smoke stacks 4603
Smoking 1
Snow 371, 765, 2545, 2609, 2663, 2695, 2707, 2753, 2767
Snow chemistry 2553, 2585, 2683, 2733, 4463, 4941
Snow properties 2779
Snow surface 5299
Snow-pack interstitial air chemistry 2573
Snowpack 2337, 2553, 2743
Snowpack chemistry 2513
Snowpack photochemistry 2501, 2671
SO₂ 677
São Paulo City 307
Sodium 1645
Sodium sulphite 1443
Sodium S1645
Soil 4977, 5021
Soil contamination 1421
Soil dust 503
Soil emissions 137, 1087
Soil heat moisture solute 5011
Soil moisture 987
Soil resuspension 3803
Soil water 1619, S1619
Soil/Atmosphere 5917
Soil-air exchange 4309
Solar variability 4037
Soot 1827, 4077, 5729
Soot particles 3899
Sorption tubes 2907
Source 3413
Source apportionment 477, 1951, 4089, 5549, 5807
Source apportionment analysis 3113
Source attribution 3629, 3643
Source identification 611
Source interaction 3951
Source signatures 663
Source site 1675
Source term 4777
Source types S81
Source-oriented relationship 5517
Source-receptor matrices 1111
Source-receptor relationship 4001
Source-receptor relationships 175, 4635, 5795
Source-tracer-ratio method S95
Sources and sinks 2799
Sources in ambient air 3591
Sources of air pollution 345
South America 299
South Korea 619
Southeastern US 1853
Southern Hemisphere 2459
Southern Indian Ocean 5131
Southern Oxidant Study 1691
Spain 3101
Spanish moss 881
Spatial and temporal variations 1941
Spatial disaggregation 5377
Spatial distribution 201, 5491
Spatial distribution of pollutants 3545
Spatial variability 1025, 1163, 1783
Spatial variation 1051
Speciated VOC oxidation 4725
Speciation scheme 773
Spectral analysis 2327
SPME-GC/MS 3909
Spoilage fungi 4801
Spores 4801
Sr isotope 5159
SST 5517
Stability 3203, 3989
Stable carbon isotope ratios 1173
Stable carbon isotopes 5887
Stack sampling 279
Standing water depth 5149
Statistical analysis 3309, 5377
Statistical diffusion theory 67
Statistical model performance measures 1793
Statistical modeling 4767

- Statistical models 2083
 Statistics 2237, S109
 Steady-state model 2523
 Stratigraphy 2753
 Stratosphere-troposphere exchange 449, 1123, 4491
 Streaker sampler 899
 Street canyon 861, 1137, 2121
 Structural ceramic industries 5289
 Structured grids 3917
 Subgrid chemistry 4649
 Submicrometre particles 4277
 Succinate 2099
 Succinic acid 2491
 Sugarcane 3009
 Sulfate 503, 1577, 3505, 4189, 4223, 4687, 4941, 5671
 Sulfate S1577
 Sulfur 3059
 Sulfur cycle 929, 4627
 Sulfur deposition 175
 Sulfur dioxide 441, 1569, S1569, 1577, 1649, 3375, 3485, 4687, 5671, 5853
 Sulfur hexafluoride S95
 Sulphate 1379, 2881, 3963
 Sulphate aerosol 4425
 Sulphur 4115
 Sulphur deposition 5983
 Sulphur dioxide 1195
 Summer smog 2187, 2841
 Sundarban 629
 Supercritical fluid extraction 2917, 2985
 Supermicrometre particles 4277
 Supersite 465
 Surface analysis 6041
 Surface area 2753, 2767, 5561
 Surface fluxes 2663
 Surface high pressure 449
 Surface layer 3709
 Surface pressure 2171
 Surface reaction 5661, 5741
 Surface resistance 537, 3277, 4787
 Surface wetness 77
 Suspended particles 1921
 Suspended particulate matter (PM₁₀) 225
 Swine 5619
 Synoptic weather system 3565
 Synoptic weather types 5343
 Synthesis inversion 4965

 Taipei 421
 Taiwan 1911, 1993, 3403
 Technical merit 3289
 Temperature 371, 987, 1051, 3767
 Temperature dependence 1843
 Temperature inversions 3473
 Temporal 663
 Temporal emissions variation 999
 Temporal variability 1783
 Tenax TA 1443
 Terpenes 1443, 3931, 4347, 5501
 Terrestrial surface 847
 Tethersonde experiment 3445

 Texas 1707, 3779
 TGM 3735
 Thailand 651, 2027, 3495
 The East Tianshan Mountains 4941
 The Great Smoky Mountains National Park 5795
 The secondary ozone peak 449
 Thermal power plant 5277
 Thermodynamic 4299
 Thermodynamic analysis 239
 Thermodynamic equilibrium 2349
 Thoron background 2257
 Threshold velocity 1453
 Time integration 873
 Time series 2867
 Time-activity diaries 963
 Time-of-flight mass spectrometry 801
 Time-resolved exhaust gas analysis 4745
 Time-trends 2881
 Titration 2049
 TMO method 1287
 TOC 1299
 TOF-SIMS 899, 6041
 Tokyo 435, 2027
 Tollbooth 5961
 Toluene 2433, 3495, 3843
 TOMS aerosol index 4173
 Topographic effects 1013
 Total bacteria count (TBC) 225
 Total bacteria counts 1929
 Total gaseous Hg 2459
 Total gaseous mercury 3413
 Total nitrogen methods 5937
 Total ozone 2003
 Total phosphorus 2309
 Total suspended particles (TSP) 3113
 Total suspended particulate matter (TSP) 2383
 Toxic releases 1183
 Toxics Release Inventory 4851
 Trace elements 345, 949, 1077, 1979, 5841
 Trace gas flux 77
 Trace gases 629, 835, 847, 2721
 Trace metals 773, 1611, S1611
 Tracer S95, 939
 Tracer concentration 561
 Tracer experiment 1147
 Tracer technique S53
 Tracers 1957, 2147
 Traffic 4077, 4907, 5323, 6015
 Traffic emissions 2121, 2215, 4115, 4375, 5355, 5385, 5569
 Traffic pollution 975
 Train 1
 Trajectories 511, 2867
 Trajectory 411, 421, 511
 Trajectory analysis 999
 Transboundary 4251
 Transboundary air pollution 5417
 Transfer coefficient 411, 421
 Transformed pollutants 4877
 Transition probability 5759
 Transport 825, 1137, 5395
 Transport behaviour 1041

- Transportation emissions 315
Transportation impacts 331
Tree rings 5887
Trend 2459, 3735, 4089
Trend analysis 2841, 3161, 3505
Triallate 5021
Trifluoroacetic acid 1233
Trifluralin 5021
TRIWIN 4851
Tropic forest fires 611
Tropical oceanic rain chemistry 2367
Tropical storm 1957
Tropics 2061
Tropopause folding 449
Troposphere 2201, 2553
Tropospheric chemistry 2683, 4725
Tropospheric composition 2619, 4529
Tropospheric O₃ 1277
Tropospheric ozone 137, 1013, 1737, 2319, 2595, 3429, 3931
TSP 3071, 4189, 4735, 5427, 5861
Tunnel 255, 1969, 6001
Tunnel portal 2943
Tunnel study 1993
Turbulence 2245, 4405, 5037, 5771
Turbulence in urban area 5073
Turbulence parameterisation 67, 1147
Turbulence statistics 3601, 3615
Turbulent diffusion 4707
Turbulent dispersion 2997
Two-component mixing 5159
Two-dimensional pollutant dispersion model 861
TX 4767
Type V Pearson distribution 491
Typha domingensis 5207

UAM 3699
Ultrafine and fine particles 5795
Ultrafine particles 4115, 4323, 4375
Ultraviolet spectroscopy 1799
Uncertainties S7, 53
Uncertainty 2121, 3021, 4811
Uncertainty analysis 1063, 1195, 5417
Understorey 77
Unsaturated alcohol 521
Unstable stratified flow 4757
Unsupervised classification 1531
Uptake 1233
Urban 663, 791, 3255
Urban aerosol 477, 2853, 5569, 6001
Urban air 571, 5535
Urban air pollution 1277, 5141, 5549
Urban air quality 315, 331, 2405, 3429, 4997, 5953
Urban airshed 3699
Urban area 1911, 2809, 4453
Urban atmosphere 345, 2215, 3183, 4367, 5385
Urban canopy 5073
Urban canyon 1025
Urban concentrations 3195
Urban dispersion 4811
Urban emission modelling S53
Urban emissions 1173
Urban environment 1655, 5887
Urban heat island 713
Urban particles 773
Urban photochemical model 5741
Urban plume 3745
Urban pollution 2281, 5355
Urban runoff 361
Urban street canyon 527
Urban transport 5335
USA 1707
UV digestion 5937
UV index 2003
UV-B 2003
UV-global irradiance 3173
UVB 825

Validation 4811
Valley wind 2049
Vallot Observatory 1221
Vegetation 1233
Vehicle emissions 861, 1475, 1737, 1969, 3195, 3709, 4735, 5141
Vehicle exhaust 255, 3363
Vehicle fuels 975
Vehicle wake theory and wind tunnel studies 4337
Vehicles 6015
Vehicular emission 249, 2039, 3429
Vehicular exhaust 477
Vehicular pollutant 2083
Vehicular pollution 4057
Ventilation 2779, 2789
Ventilation coefficient 3461
Ventilation factor 4777
Vertical concentration gradient 6001
Vertical diffusion 3049
Vertical distribution 5479
Vertical mixing 5771
Vertical profile 4907
Vertical turbulent flux of pollutants 527
Vertical variation 5645
Viable microorganisms 889
Visibility 3161, 5049, 5807
Visual air quality 3161
VOC 2433
VOC contents 5961
VOC control 4045
VOC profile 1993
VOCs 57, S109, 1763, 1929, 2201, 3429, 6051
Volatile organic compounds 115, 2039, 2979, 3843, 4851, 4895, 5031, 5645, 6015
Volatile organic compounds (VOCs) 225, 3041, 4159
Volatilization 3309, 5011
Vortex cascade 1137
Vortex migration 3615

Wake parameterizations 4337
Wall-loss 19, 5459
Waste 4919
Water and diluted-acid extractions 639
Water dialysis method 3899
Water surface sampler 3267
Water vapour pressure deficit (WVPD) 4441

- Water-insoluble organic carbon 4479
Water-soluble ion species 1911
Water-soluble ions 5853
Water-soluble matters 1299
Water-soluble organic carbon 4479
Watershed 1599, S1599
Weekend effect 999, 2327
Weibull distribution 491
Well-mixed assumption 9
Wet canopies 4787
Wet deposition 331, 371, 1577, S1577, 1707, 2337, 3721, 4517
Wet removal 5245
Wet-only annual deposition rates 3089
Wet-only collectors 5983
Wind 3071
Wind direction 2237
Wind fence 2171
Wind field 2013
Wind flow in urban area 5073
Wind profiler radar 1349
Wind shear 2245, 2641
Wind tunnel 4577, 5527, 5595, 5697, 5917
Wind tunnel data 861
Wind tunnel experiments 4811
Wind-blown mineral dust 4863
Windbreak 2171
Winds 2925
Winter and monsoon 2925
Winter-night smog 435
Wood 1763
Wood burning 3519
Wood combustion 2207, 4823
Woodlands 4265
Workplace 4593
X-ray fluorescence 2447
X-ray fluorescence spectrometry 639
XAD resin 5103
Xylene 2433
Yangtze delta 161
Yellow sand 503
Yellow Sea 5427
Yellow-sand 449

AUTHORS

**If you want to make the best of your artwork
send it in the correct digital format**

All articles accepted for publication in Elsevier Science journals are processed using electronic production methods. Authors should therefore ensure that their artwork conforms to the following guidelines:

- **Colour and greyscale images** should be supplied as **TIFF** or **EPS** files (resolution 300 dpi).
- **Line drawings (black & white or colour)** should be supplied as **EPS** files

*If you need help to create files in these formats, go to
www.elsevier.com/locate/authorartwork/formats*

Please also note:

- We still need a good quality hard copy of each figure in case the electronic file cannot be used. The hard copy and electronic file must match exactly.
- We can use floppy disks, ZIP disks or CD-ROM. Artwork files should be on a separate disk or CD to article text files.
www.elsevier.com/locate/authorartwork/media
- Only standard fonts should be used, for example:
Times, Times New Roman, Helvetica, Arial, Symbol
www.elsevier.com/locate/authorartwork/formats
- Lines should be a minimum width of 0.5 pt.
www.elsevier.com/locate/authorartwork/linewidth
- Only standard colours should be used.
www.elsevier.com/locate/authorartwork/colours
- Lettering should be a consistent size and appropriate to the size of the figure.
www.elsevier.com/locate/authorartwork/sizing
- An image which looks acceptable on a computer may not reproduce well, so it is important to ensure that these guidelines are followed.

*Our Author Artwork website has all the information you need on
how to submit your artwork correctly. Visit it today at:*

www.elsevier.com/locate/authorartwork



ELSEVIER



NORTH
HOLLAND



PERGAMON

find

submit

track

alerts

personalise

from Elsevier Science

A decorative separator consisting of a single row of 30 small, dark gray circles.

The integrated online entry point for all your submission needs

- ➡ Find your journal - search by title, keyword or editor; browse by subject area or title.
- ➡ Submit your paper - access comprehensive instructions about getting published, including online submission where available.
- ➡ Track your paper - track the status of your paper from acceptance to publication (this service was formerly known as OASIS)
- ➡ Set up alerts for your favourite journals - receive tables of contents by email from ContentsDirect.
- ➡ Personalise your homepage - create your own unique homepage with quick links to your papers, journals and email alerts.

[illegible]

<http://authors.elsevier.com>

helping you get published

For more information about the Author Gateway contact Author Support at: authorsupport@elsevier.com

